



## 3 Species of Greatest Conservation Need

### A: Introduction and Selection Criteria

Five hundred and seventy species were determined to be Species of Greatest Conservation Need (SGCN) in Massachusetts, including:

- 172 vertebrates
  - 29 fishes
  - 5 amphibians
  - 20 reptiles
  - 95 birds
  - 23 mammals
- 115 invertebrates
  - 8 miscellaneous invertebrates
  - 10 freshwater mussels
  - 8 crustaceans
  - 27 dragonflies and damselflies
  - 9 beetles
  - 44 butterflies and moths
  - 9 bees
- 283 plants

Identifying Species of Greatest Conservation Need for this update followed much the same set of criteria as in the 2005 SWAP:

All species, including plants, listed under the authority of the Massachusetts Endangered Species Act (MESA) were included on the updated SWAP list. The MESA list is regularly updated; the list change procedure involves solicitation of comments on listing proposals from at least three external scientific reviewers and from the public. See

<http://www.mass.gov/eea/docs/dfg/nhosp/species-and-conservation/listing-criteria.pdf> or Appendix A for a full description of the MESA listing criteria and process.

- All species given a global rank of G1 through G3G4 (globally rare species) by NatureServe were considered for inclusion. See the explanation of abbreviations at the end of Table 3-2 for definition of global ranks. A few globally rare species that

occur in Massachusetts were not included in the current SWAP list. In general, these species are considered relatively secure in Massachusetts or to have significant taxonomic questions.

- The Northeast Fish and Wildlife Diversity Technical Committee's list of species of regional concern and responsibility (the RSGCN list; Terwilliger Consulting and Northeast Fish and Wildlife Diversity Technical Committee, 2013) was consulted for the groups they covered (vertebrates, freshwater mussels, tiger beetles, federally listed invertebrates). Most of the species they considered to be of high or very high regional concern or high or very high regional responsibility were included in our SWAP list, if they occur regularly in Massachusetts.
- The New England Wild Flower Society and its many partners across the region, joined as the New England Plant Conservation Program (NEPCoP), published the first regional rare plant list, *Flora Conservanda: New England*, in 1996 (Brumback and Mehrhoff, 1996). In 2009, NEPCoP began revision of *Flora Conservanda*; in 2013, the revision was published in *Rhodora*, the Journal of the New England Botanical Club (Brumback and Gerke 2013). The 2013 revision was checked to help determine which plants, beyond those already listed under MESA, would be included on the SWAP list.
- Birds: The highest priorities in the North American Waterbird Conservation Plan (Kushlan et al., 2002) and the Northern Atlantic Regional Shorebird Plan (Clark et al., 2000) were considered; most of these species were added to the Massachusetts list of SGCN if the species concerned occur regularly in the state. The Partners in Flight North American Landbird Conservation Plan (Rich et al., 2004) list of Watch List and Stewardship species for the Eastern Avifaunal Biome was consulted, as well. Mass Audubon recently summarized the data from the second Massachusetts Breeding Bird Atlas (Walsh and Petersen, 2013, Massachusetts Audubon Society, 2011, 2013); these data were scrutinized in detail. A recent analysis of Breeding Bird Survey data, both for the region and for Massachusetts, was also consulted.

The most significant change since the 2005 Massachusetts SWAP is the inclusion of plants in this update. Although plants are not mandated by Congress for inclusion in SWAPs, it is clear that many plant species are in just as much danger of decline as

animals (Stein and Gravuer, 2008) and that conservation of the breadth of biodiversity in our Commonwealth must include plants. Additionally, a recent summary of plants of conservation concern in New England (New England Wild Flower Society, 2015) demonstrates the precarious status of hundreds of native plants across the region. Therefore, we have included plants in this SWAP and consider their conservation to be of equal importance to the conservation of animals. **Note that plants make up about half of the total list of Massachusetts SGCN.**

Another major change is the addition of 36 more species of birds in this SWAP (four were dropped, as well). Since the 2005 SWAP, Mass Audubon conducted their second Breeding Bird Atlas (Walsh and Petersen 2013) across the Commonwealth. More than 650 volunteers worked over 43,000 hours to contribute to an updated understanding of the distribution and abundance of breeding birds in the state. After analysis of the new Atlas data, Mass Audubon published *State of the Birds 2011* and *State of the Birds 2013* (Massachusetts Audubon Society 2011, 2013), a summary of the striking changes in Massachusetts avifauna over the past thirty years and a discussion of the threats affecting our breeding birds. In combination with analyses of Breeding Bird Survey data (Sauer et al. 2014), it is clear—and quite sobering to note—that many more species of birds are declining rapidly across the state.

Finally, several species of bees were added. Since the 2005 SWAP, it has become evident that many pollinators, which as a group perform an essential ecosystem service, are declining rapidly worldwide (Heinz Center, 2013). While Massachusetts does not yet have sufficient information to assess all bees for inclusion as SGCN (but see Veit et al. in prep), the nine bees in the list of Species of Greatest Conservation Need, Table 3-2, are clearly demonstrated to be very uncommon or declining in the state. We expect that several other species of native bees will be demonstrated to meet SGCN inclusion criteria in the next decade, unfortunately, as researchers determine more precisely the distribution and abundance of these species in the state.

Note that the four species of bumblebees on the SGCN list are not assigned to any SWAP habitats. These formerly common, generalist species are likely victims of an exotic pathogen or pathogens brought in with imported hives (Cameron et al. 2011; Gillespie 2010).

They are not associated with any one or even a few of the 24 SWAP habitats, but formerly were likely to be found in most terrestrial landscapes across the state. Therefore, we have included them on the SGCN list, but not assigned them to SWAP habitats.

Species on the MESA list are considered the highest priority or tier; SWAP species not on the MESA list are considered of lower priority or tier.

For details on changes in SGCN species since the 2005 SWAP, see Section C, below.

**B: Massachusetts Species of Greatest Conservation Need**

Table 3-1, below, lists all of the SGCN in Massachusetts, with their global rank, federal status, regional SGCN status (RSGCN, for vertebrates, freshwater mussels, tiger beetles, and federally listed invertebrates only; see Section D, below, for an explanation), MESA status, other concerns and comments (including level of RSGCN concern and responsibility; see Section D, below), and SWAP Habitats. For an explanation of the SWAP Habitats, see Chapter 4. Details on each of these species, including a short description, their distribution and abundance in the state, habitat description, threats, and references, can be found in the online fact sheets (linked from the common names). Comments in red refer to name and status changes that have been or will shortly be proposed to the MESA list.

See the end of the table for explanations of abbreviations.

**Table 3-1: Massachusetts Species of Greatest Conservation Need.**

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<b>Vertebrates</b>									
<b>Fishes</b>									
<i>Acipenser brevirostrum</i>	<a href="#">Shortnose Sturgeon</a>	G3	LE	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats
<i>Acipenser oxyrinchus</i>	<a href="#">Atlantic Sturgeon</a>	G3	LE, LT	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats
<i>Alosa aestivalis</i>	<a href="#">Blueback Herring</a>	G3G4	--	X	NA	--	S3S4	RSGCN responsibility – high RSGCN concern – high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats
<i>Alosa pseudoharengus</i>	<a href="#">Alewife</a>	G5	--	X	NA	--	S3S4	RSGCN responsibility – high RSGCN concern – high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats Lakes & Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Alosa sapidissima</i>	<a href="#">American Shad</a>	G5	--	X	NA	--	<b>S3S4</b>	RSGCN responsibility – low RSGCN concern – very high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats
<i>Anguilla rostrata</i>	<a href="#">American Eel</a>	G4	--	X	NA	--	<b>S3S4</b>	RSGCN responsibility – low RSGCN concern – very high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats Lakes & Ponds
<i>Catostomus catostomus</i>	<a href="#">Longnose Sucker</a>	G5	--	X	NA	SC	<b>S3</b>	RSGCN responsibility – low RSGCN concern – high	Large & Mid-sized Rivers Small Streams
<i>Catostomus commersoni</i>	<a href="#">White Sucker</a>	G5	--	--	NA	--	S5	Not everywhere it should be expected; downward trend; issues of connectivity	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Lakes & Ponds
<i>Chrosomus eos</i>	<a href="#">Northern Redbelly Dace</a>	G5	--	--	NA	E	<b>S1</b>	<b>This name will be proposed; current name is <i>Phoxinus eos</i></b>	Small Streams
<i>Cottus cognatus</i>	<a href="#">Slimy Sculpin</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – high Host to federally and state Endangered Dwarf Wedgemussel	Small Streams
<i>Couesius plumbeus</i>	<a href="#">Lake Chub</a>	G5	--	--	NA	E	<b>S1</b>		Large & Mid-sized Rivers Small Streams
<i>Enneacanthus obesus</i>	<a href="#">Banded Sunfish</a>	G5	--	X	NA	--	S4	RSGCN responsibility – high RSGCN concern – very high	Large & Mid-sized Rivers Lakes & Ponds
<i>Erimyzon oblongus</i>	<a href="#">Creek Chubsucker</a>	G5	--	--	NA	--	S4	low population numbers; impacted range-wide	Large & Mid-sized Rivers
<i>Etheostoma fusiforme</i>	<a href="#">Swamp Darter</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – high	Large & Mid-sized Rivers Lakes & Ponds
<i>Etheostoma olmstedii</i>	<a href="#">Tessellated Darter</a>	G5	--	--	NA	--	S4	Host to federally and state Endangered Dwarf Wedgemussel	Large & Mid-sized Rivers
<i>Fundulus luciae</i>	<a href="#">Spotfin Killifish</a>	G4	--	X	NA	--	<b>S3</b>	RSGCN responsibility – high RSGCN concern – very high	Salt Marsh Marine & Estuarine Habitats

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Gasterosteus aculeatus</i>	<a href="#">Threespine Stickleback</a>	G5	--	--	NA	T	S4	Only the trimorphic freshwater population is listed under MESA and therefore a SGCN.	Lakes & Ponds
<i>Hybognathus regius</i>	<a href="#">Eastern Silvery Minnow</a>	G5	--	X	NA	SC	<b>S2</b>	RSGCN responsibility – high RSGCN concern – low	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers
<i>Lethenteron appendix</i>	<a href="#">American Brook Lamprey</a>	G4	--	X	NA	T	<b>S2</b>	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is <i>Lampetra appendix</i></b>	Small Streams
<i>Lota lota</i>	<a href="#">Burbot</a>	G5	--	X	NA	SC	<b>S1</b>	RSGCN responsibility – low RSGCN concern – high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers
<i>Luxilus cornutus</i>	<a href="#">Common Shiner</a>	G5	--	--	NA	--	S4		Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Lakes & Ponds
<i>Notropis bifrenatus</i>	<a href="#">Bridle Shiner</a>	<b>G3</b>	--	X	NA	SC	<b>S3</b>	RSGCN responsibility – high RSGCN concern – very high	Lakes & Ponds Large & Mid-sized Rivers Small Streams
<i>Petromyzon marinus</i>	<a href="#">Sea Lamprey</a>	G5	--	--	NA	--	S4		Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Marine & Estuarine Habitats
<i>Rhinichthys atratulus</i>	<a href="#">Blacknose Dace</a>	G5	--	--	NA	--	S5		Large & Mid-sized Rivers Small Streams
<i>Rhinichthys cataractae</i>	<a href="#">Longnose Dace</a>	G5	--	--	NA	--	S5		Large & Mid-sized Rivers Small Streams
<i>Salmo salar</i>	<a href="#">Atlantic Salmon</a>	G5	--	X	NA	--	S1	RSGCN responsibility – low RSGCN concern – very high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Small Streams Marine & Estuarine Habitats
<i>Salvelinus fontinalis</i>	<a href="#">Brook Trout</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – very high	Large & Mid-sized Rivers Small Streams

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Semotilus atromaculatus</i>	<a href="#">Creek Chub</a>	G5	--	--	NA	--	S4		Large & Mid-sized Rivers Small Streams
<i>Semotilus corporalis</i>	<a href="#">Fallfish</a>	G5	--	X	NA	--	S4	RSGCN responsibility – high RSGCN concern – low	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Small Streams
<b>Amphibians</b>									
<i>Ambystoma jeffersonianum</i>	<a href="#">Jefferson Salamander</a>	G4	--	X (as a complex)	NA	SC	<b>S2S3</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Vernal Pools
<i>Ambystoma laterale</i>	<a href="#">Blue-Spotted Salamander</a>	G5	--	X (as a complex)	NA	SC	<b>S3</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Vernal Pools
<i>Ambystoma opacum</i>	<a href="#">Marbled Salamander</a>	G5	--	X	NA	T	<b>S2S3</b>	RSGCN responsibility – low RSGCN concern – high	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Vernal Pools
<i>Lithobates pipiens</i>	<a href="#">Northern Leopard Frog</a>	G5	--	X	NA	--	<b>S3S4</b>	RSGCN responsibility – low RSGCN concern – high	Lakes & Ponds Small Streams Peatlands Marshes & Wet Meadows
<i>Scaphiopus holbrookii</i>	<a href="#">Eastern Spadefoot</a>	G5	--	X	NA	T	<b>S2</b>	RSGCN responsibility – low RSGCN concern – very high	Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Vernal Pools

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<b>Reptiles</b>									
<i>Agkistrodon contortrix</i>	<a href="#">Northern Copperhead</a>	G5	--	X	NA	E	S1	RSGCN responsibility – low RSGCN concern – high <b>This name will be proposed; current name is Copperhead</b>	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Caretta caretta</i>	<a href="#">Loggerhead Sea Turtle</a>	G3	--	X	NA	T	S1N	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Loggerhead Seaturtle</b>	Marine & Estuarine Habitats
<i>Carphophis amoenus</i>	<a href="#">Eastern Wormsnake</a>	G5	--	--	NA	T	S1S2		Central Hardwoods-White Pine Upland Forest
<i>Chelonia mydas</i>	<a href="#">Green Sea Turtle</a>	G3	LE, LT	X	NA	T	S1N	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Green Seaturtle</b>	Marine & Estuarine Habitats
<i>Clemmys guttata</i>	<a href="#">Spotted Turtle</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – very high	Vernal Pools Shrub Swamps Forested Swamps Large Unfragmented Landscape Mosaics
<i>Coluber constrictor</i>	<a href="#">North American Racer</a>	G5	--	X	NA	--	S4S5	RSGCN responsibility – high RSGCN concern – high	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Young Forest & Shrublands Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Crotalus horridus</i>	<a href="#">Timber Rattlesnake</a>	G4	--	X	NA	E	S1	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Dermochelys coriacea</i>	<a href="#">Leatherback Sea Turtle</a>	G2	LE	X	NA	E	S1S2N	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Leatherback Seaturtle</b>	Marine & Estuarine Habitats
<i>Emydoidea blandingii</i>	<a href="#">Blanding's Turtle</a>	G4	--	X	NA	T	S2	RSGCN responsibility – low RSGCN concern – very high	Vernal Pools Shrub Swamps Large Unfragmented Landscape Mosaics
<i>Eretmochelys imbricata</i>	<a href="#">Hawksbill Sea Turtle</a>	G3	LE	X	NA	E	S1N	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Hawksbill Seaturtle</b>	Marine & Estuarine Habitats
<i>Glyptemys insculpta</i>	<a href="#">Wood Turtle</a>	G3	--	X	NA	SC	S3	RSGCN responsibility – high RSGCN concern – very high	Large & Mid-sized Rivers Small Streams Riparian Forest
<i>Glyptemys muhlenbergii</i>	<a href="#">Bog Turtle</a>	G3	LT, SAT	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Shrub Swamps Marshes & Wet Meadows
<i>Heterodon platirhinos</i>	<a href="#">Eastern Hog-nosed Snake</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – very high	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Grasslands Young Forests & Shrublands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Lepidochelys kempii</i>	<a href="#">Kemp's Ridley Sea Turtle</a>	G1	LE	X	NA	E	S1N	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Kemp's Ridley Seaturtle</b>	Marine & Estuarine Habitats
<i>Malaclemys terrapin</i>	<a href="#">Northern Diamond-backed Terrapin</a>	G4	--	X	NA	T	S2	RSGCN responsibility – high RSGCN concern – very high <b>This name will be proposed; current name is Diamond- backed Terrapin</b>	Salt Marsh Marine & Estuarine Habitats
<i>Opheodrys vernalis</i>	<a href="#">Smooth Greensnake</a>	G5	--	X	NA	--	S5	RSGCN responsibility – low RSGCN concern – high Synonym: <i>Liochlorophis vernalis</i>	Grasslands Marshes & Wet Meadows Young Forests & Shrublands
<i>Pantherophis alleghaniensis</i>	<a href="#">Eastern Ratsnake</a>	G5	--	--	NA	E	S1		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Young Forests & Shrublands Rock Cliffs/Ridgetops/Talus Slopes
<i>Pseudemys rubriventris</i>	<a href="#">Northern Red-Bellied Cooter</a>	G5T2 Q	LE	X	NA	E	S2	RSGCN responsibility – high RSGCN concern – high	Lakes & Ponds Coastal Plain Ponds
<i>Terrapene carolina</i>	<a href="#">Eastern Box Turtle</a>	G5	--	X	NA	SC	S3	RSGCN responsibility – low RSGCN concern – very high	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest
<i>Thamnophis sauritus</i>	<a href="#">Eastern Ribbonsnake</a>	G5	--	X	NA	--	S4S5	RSGCN responsibility – low RSGCN concern – very high	Lakes & Ponds Small Streams Peatlands Forested Swamps Marshes & Wet Meadows

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<b>Birds</b>									
<i>Accipiter gentilis</i>	<a href="#">Northern Goshawk</a>	G5	--	X	NA	--	<b>S3</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 16 blocks since 1974-1979, deemed local and likely declining	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Ammodramus caudacutus</i>	<a href="#">Saltmarsh Sharp-tailed Sparrow</a>	G4	--	X	NA	--	<b>S3B</b>	RSGCN responsibility – high RSGCN concern – very high PIF Watch List Species	Salt Marsh
<i>Ammodramus maritimus</i>	<a href="#">Seaside Sparrow</a>	G4	--	X	NA	--	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high PIF Watch List Species	Salt Marsh
<i>Ammodramus savannarum</i>	<a href="#">Grasshopper Sparrow</a>	G5	--	X	NA	T	<b>S3B</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands
<i>Anas discors</i>	<a href="#">Blue-winged Teal</a>	G5	--	--	NA	--	<b>S2B, S5M</b>		Lakes & Ponds Marshes & Wet Meadows
<i>Anas rubripes</i>	<a href="#">American Black Duck</a>	G5	--	X	NA	--	S4B, S5N	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats Shrub Swamps Forested Swamps Lakes & Ponds Salt Marsh Marshes & Wet Meadows
<i>Antrostomus vociferus</i>	<a href="#">Eastern Whip-poor-will</a>	G5	--	X	NA	SC	<b>S2S3, S3N</b>	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is <i>Caprimulgus vociferus</i></b>	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Young Forests & Shrublands
<i>Ardea alba</i>	<a href="#">Great Egret</a>	G5	--	--	NA	--	<b>S2B, S4N</b>	Increasing in numbers, but still only a few breeding colonies	Coastal Dunes/Beaches/Small Islands Salt Marsh

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Arenaria interpres</i>	<a href="#">Ruddy Turnstone</a>	G5	--	X	NA	--	S4N	RSGCN responsibility – low RSGCN concern – very high	Coastal Dunes/Beaches/Small Islands
<i>Asio flammeus</i>	<a href="#">Short-eared Owl</a>	G5	--	X	NA	E	<b>S1B,</b> <b>S3N</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands Salt Marsh
<i>Asio otus</i>	<a href="#">Long-eared Owl</a>	G5	--	X	NA	SC	<b>S1B,</b> <b>S2N</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands Transitional Hardwoods- White Pine Upland Forest Pitch Pine-Oak Upland Forest
<i>Bartramia longicauda</i>	<a href="#">Upland Sandpiper</a>	G5	--	X	NA	E	<b>S1B,</b> <b>S1N</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands
<i>Bonasa umbellus</i>	<a href="#">Ruffed Grouse</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – high	Young Forests & Shrublands
<i>Botaurus lentiginosus</i>	<a href="#">American Bittern</a>	G4	--	X	NA	E	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Marshes & Wet Meadows Peatlands
<i>Buteo platypterus</i>	<a href="#">Broad-winged Hawk</a>	G5	--	X	NA	--	S5B, S5N	RSGCN responsibility – low RSGCN concern – high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Shrub Swamps Forested Swamps
<i>Calidris alba</i>	<a href="#">Sanderling</a>	G5	--	X	NA	--	S5N	RSGCN responsibility – low RSGCN concern – high	Coastal Dunes/Beaches/Small Islands
<i>Calidris canutus</i>	<a href="#">Red Knot</a>	G4	LT	X	NA	T	<b>S2N</b>	RSGCN responsibility – high RSGCN concern – very high Highest priority Shorebird Plan <b>This will be proposed as Threatened on the MESA list</b>	Coastal Dunes/Beaches/Small Islands
<i>Calidris maritima</i>	<a href="#">Purple Sandpiper</a>	G5	--	X	NA	--	S4N	RSGCN responsibility – low RSGCN concern – very high	Rocky Coastlines

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Calidris pusilla</i>	<a href="#">Semi-palmated Sandpiper</a>	G5	--	X	NA	--	S5N	RSGCN responsibility – low RSGCN concern – high	Coastal Dunes/Beaches/Small Islands
<i>Calonectris diomedea</i>	<a href="#">Cory's Shearwater</a>	G5	--	--	NA	--	<b>S3N</b>		Marine & Estuarine Habitats
<i>Cardellina canadensis</i>	<a href="#">Canada Warbler</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – low RSGCN concern – very high Synonym: <i>Wilsonia canadensis</i> MA Breeding Bird Atlas: down 116 blocks since 1974-1979, deemed local and strongly declining	Forested Swamps Riparian Forest
<i>Chaetura pelagica</i>	<a href="#">Chimney Swift</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – low RSGCN concern – high MA Breeding Bird Atlas says very widespread and stable, but Breeding Bird Survey data say it is decreasing, both regionally and in MA	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Young Forest & Shrublands Grasslands
<i>Charadrius melodus</i>	<a href="#">Piping Plover</a>	<b>G3</b>	LE, LT	X	NA	T	<b>S2B</b>	RSGCN responsibility – high RSGCN concern – very high Highest priority Shorebird Plan	Coastal Dunes/Beaches/Small Islands
<i>Chordeiles minor</i>	<a href="#">Common Nighthawk</a>	G5	--	X	NA	--	<b>S2B, S5M</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 34 blocks since 1974-1979, deemed very local and strongly declining	Coastal Dunes/Beaches/Small Islands
<i>Circus cyaneus</i>	<a href="#">Northern Harrier</a>	G5	--	X	NA	T	<b>S2B, S4N</b>	RSGCN responsibility – low RSGCN concern – very high	Marshes & Wet Meadows Grasslands Pitch Pine-Oak Upland Forest
<i>Cistothorus palustris</i>	<a href="#">Marsh Wren</a>	G5	--	X	NA	--	<b>S2S3B</b>	RSGCN responsibility – low RSGCN concern – high	Marshes & Wet Meadows
<i>Cistothorus platensis</i>	<a href="#">Sedge Wren</a>	G5	--	X	NA	E	<b>S1B, S1N</b>	RSGCN responsibility – low RSGCN concern – very high	Marshes & Wet Meadows

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Clangula hyemalis</i>	<a href="#">Long-tailed Duck</a>	G5	--	--	NA	--	S5N		Marine & Estuarine Habitats Rocky Coastlines
<i>Coccyzus erythrophthalmus</i>	<a href="#">Black-billed Cuckoo</a>	G5	--	X	NA	--	S4B, S4N	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 71 blocks since 1974-1979, deemed somewhat local and likely declining	Young Forests & Shrublands
<i>Colinus virginianus</i>	<a href="#">Northern Bobwhite</a>	G5	--	X	NA	--	<b>S2</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 224 blocks since 1974-1979, deemed local and strongly declining	Pitch Pine-Oak Upland Forest Grasslands Young Forests & Shrublands
<i>Contopus cooperi</i>	<a href="#">Olive-sided Flycatcher</a>	G4	--	X	NA	--	<b>SHB, S2N</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 8 blocks since 1974-1979, deemed very local and strongly declining	Peatlands
<i>Dolichonyx oryzivorus</i>	<a href="#">Bobolink</a>	G5	--	X	NA	--	<b>S3S4B</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas says fairly widespread and likely increasing, but Breeding Bird Survey data say it is declining regionally	Grasslands
<i>Egretta thula</i>	<a href="#">Snowy Egret</a>	G5	--	X	NA	--	<b>S2B, S4N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan Only a few breeding colonies	Salt Marsh Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Eremophila alpestris</i>	<a href="#">Horned Lark</a>	G5	--	X	NA	--	<b>S3B, S4N</b>	RSGCN responsibility – low RSGCN concern – high MA Breeding Bird Atlas: down 35 blocks since 1974-1979, deemed local and strongly declining	Grasslands Coastal Dunes/Beaches/Small Islands
<i>Euphagus carolinus</i>	<a href="#">Rusty Blackbird</a>	G4	--	X	NA	--	<b>S1?B, S3N</b>	RSGCN responsibility – low RSGCN concern – very high PIF Watch List Species	Forested Swamps
<i>Falco peregrinus</i>	<a href="#">Peregrine Falcon</a>	G4	--	X	NA	<b>T</b>	<b>S2B, S3N</b>	RSGCN responsibility – high RSGCN concern – very high <b>Proposed to go from E to T</b>	Rock Cliffs/Ridgetops/Talus Slopes
<i>Falco sparverius</i>	<a href="#">American Kestrel</a>	G5	--	X	NA	--	<b>S3</b>	RSGCN responsibility – low RSGCN concern – high MA Breeding Bird Atlas: down 289 blocks since 1974-1979, deemed somewhat local and strongly declining	Grasslands Young Forests & Shrublands
<i>Fratercula arctica</i>	<a href="#">Atlantic Puffin</a>	G5	--	--	NA	--	<b>S2N</b>		Marine & Estuarine Habitats
<i>Gallinago delicata</i>	<a href="#">Wilson's Snipe</a>	G5	--	X	NA	--	<b>S1S2B, S4N</b>	RSGCN responsibility – low RSGCN concern – high BBS NE/MATL (NA); MA (8.9,10.9); MA Breeding Bird Atlas says local and likely increasing; also increasing on MA Breeding Bird Survey routes, but habitat is still very limited	Marshes & Wet Meadows
<i>Gallinula galeata</i>	<a href="#">Common Gallinule</a>	G5	--	X	NA	SC	<b>S1B, S1N</b>	RSGCN responsibility – low RSGCN concern – high	Marshes & Wet Meadows
<i>Gavia immer</i>	<a href="#">Common Loon</a>	G5	--	X	NA	SC	<b>S2B, S5N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Lakes & Ponds
<i>Gavia stellata</i>	<a href="#">Red-throated Loon</a>	G5	--	--	NA	--	S4N	Highest priority Waterbird Plan	Marine & Estuarine Habitats

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Geothlypis philadelphia</i>	<a href="#">Mourning Warbler</a>	G5	--	--	NA	SC	<b>S2B, S2N</b>	This name will be proposed; current name is <i>Oporornis philadelphia</i>	Young Forests & Shrublands
<i>Haematopus palliatus</i>	<a href="#">American Oystercatcher</a>	G5	--	X	NA	--	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Shorebird Plan	Coastal Dunes/Beaches/Small Islands
<i>Haemorhous purpureus</i>	<a href="#">Purple Finch</a>	G5	--	--	NA	--	S4	MA Breeding Bird Atlas: down 227 blocks since 1974-1979, deemed fairly widespread and strongly declining	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Haliaeetus leucocephalus</i>	<a href="#">Bald Eagle</a>	G5	--	--	NA	T	<b>S2B, S3N</b>		Lakes & Ponds Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Marine & Estuarine Habitats
<i>Histrionicus histrionicus</i>	<a href="#">Harlequin Duck</a>	G4	--	X	NA	--	<b>S2N</b>	RSGCN responsibility – low RSGCN concern – very high	Rocky Coastlines
<i>Hylocichla mustelina</i>	<a href="#">Wood Thrush</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – high RSGCN concern – very high PIF Watch List Species MA Breeding Bird Atlas: down 30 blocks since 1974-1979, deemed very widespread and likely declining	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Ixobrychus exilis</i>	<a href="#">Least Bittern</a>	G5	--	X	NA	E	<b>S1S2B</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Marshes & Wet Meadows
<i>Larus argentatus</i>	<a href="#">Herring Gull</a>	G5	--	--	NA	--	<b>S3S4B, S5N</b>	Only a few breeding colonies	Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats Salt Marsh

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Larus atricilla</i>	<a href="#">Laughing Gull</a>	G5	--	--	NA	--	S2B		Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats Salt Marsh
<i>Larus marinus</i>	<a href="#">Great Black-backed Gull</a>	G5	--	--	NA	--	S3S4B, S5N	Only a few breeding colonies	Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats Salt Marsh
<i>Limnodromus griseus</i>	<a href="#">Short-billed Dowitcher</a>	G5	--	--	NA	--	S4N		Coastal Dunes/Beaches/Small Islands
<i>Mniotilta varia</i>	<a href="#">Black-and-white Warbler</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – low RSGCN concern – high MA Breeding Bird Atlas: down 52 blocks since 1974-1979, deemed very widespread and likely declining	Northern Hardwoods- Spruce-Fir Upland Forest
<i>Morus bassanus</i>	<a href="#">Northern Gannet</a>	G5	--	--	NA	--	S5N		Marine & Estuarine Habitats
<i>Numenius borealis</i>	<a href="#">Eskimo Curlew</a>	<b>GH</b>	--	--	NA	--	<b>SX</b>	Highest priority Shorebird Plan	Coastal Dunes/Beaches/Small Islands
<i>Numenius phaeopus</i>	<a href="#">Whimbrel</a>	G5	--	X	NA	--	<b>S3N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Shorebird Plan	Coastal Dunes/Beaches/Small Islands
<i>Nycticorax nycticorax</i>	<a href="#">Black-crowned Night-Heron</a>	G5	--	X	NA	--	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan Only a few breeding colonies	Salt Marsh Coastal Dunes/Beaches/Small Islands
<i>Oceanodroma leucorhoa</i>	<a href="#">Leach's Storm-Petrel</a>	G5	--	--	NA	E	<b>S1B, S4N</b>		Marine & Estuarine Habitats Coastal Dunes/Beaches/Small Islands
<i>Oreothlypis ruficapilla</i>	<a href="#">Nashville Warbler</a>	G5	--	--	NA	--	S4B		Young Forests & Shrublands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Parkesia motacilla</i>	<a href="#">Louisiana Waterthrush</a>	G5	--	X	NA	--	S4B	RSGCN responsibility – low RSGCN concern – very high PIF Stewardship Species Synonym: <i>Seiurus motacilla</i>	Small Streams Riparian Forest
<i>Petrochelidon pyrrhonota</i>	<a href="#">Cliff Swallow</a>	G5	--	--	NA	--	<b>S2B</b>	MA Breeding Bird Atlas: down 64 blocks since 1974-1979, deemed local and strongly declining	Rock Cliffs/Ridgetops/Talus Slopes
<i>Phalacrocorax auritus</i>	<a href="#">Double-crested Cormorant</a>	G5	--	--	NA	--	<b>S3B, S5N</b>	Only a few breeding colonies	Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats Lakes & Ponds
<i>Phalaropus fulicarius</i>	<a href="#">Red Phalarope</a>	G5	--	--	NA	--	S4N		Marine & Estuarine Habitats
<i>Phalaropus lobatus</i>	<a href="#">Red-necked Phalarope</a>	G4G5	--	--	NA	--	S4N		Marine & Estuarine Habitats
<i>Pipilo erythrophthalmus</i>	<a href="#">Eastern Towhee</a>	G5	--	X	NA	--	S4B	RSGCN responsibility – low RSGCN concern – very high PIF Stewardship Species MA Breeding Bird Atlas: down 30 blocks since 1974-1979, deemed nearly ubiquitous and likely declining	Young Forests & Shrublands Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest
<i>Piranga olivacea</i>	<a href="#">Scarlet Tanager</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – high RSGCN concern – high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Plegadis falcinellus</i>	<a href="#">Glossy Ibis</a>	G5	--	--	NA	--	<b>S2B</b>	Highest priority Waterbird Plan	Coastal Dunes/Beaches/Small Islands Salt Marsh
<i>Podilymbus podiceps</i>	<a href="#">Pied-billed Grebe</a>	G5	--	X	NA	E	<b>S1B, S4N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Marshes & Wet Meadows Lakes & Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Poocetes gramineus</i>	<a href="#">Vesper Sparrow</a>	G5	--	X	NA	T	<b>S1S2B, S3N</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands Pitch Pine-Oak Upland Forest
<i>Porzana carolina</i>	<a href="#">Sora</a>	G5	--	X	NA	--	<b>S2S3B, S4N</b>	RSGCN responsibility – low RSGCN concern – very high	Marshes & Wet Meadows
<i>Progne subis</i>	<a href="#">Purple Martin</a>	G5	--	--	NA	--	<b>S1B</b>	MA Breeding Bird Atlas: down 14 blocks since 1974-1979, deemed very local and strongly declining	Grasslands Coastal Dunes/Beaches/Small Islands
<i>Puffinus griseus</i>	<a href="#">Sooty Shearwater</a>	G5	--	--	NA	--	S5N		Marine & Estuarine Habitats
<i>Puffinus puffinus</i>	<a href="#">Manx Shearwater</a>	G5	--	--	NA	--	<b>SXB, S3S4N</b>		Marine & Estuarine Habitats
<i>Rallus elegans</i>	<a href="#">King Rail</a>	G4	--	X	NA	T	<b>S1B, S1N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Marshes & Wet Meadows
<i>Riparia riparia</i>	<a href="#">Bank Swallow</a>	G5	--	X	NA	--	S5B	RSGCN responsibility – low RSGCN concern – high MA Breeding Bird Atlas: down 57 blocks since 1974-1979, deemed somewhat local and strongly declining	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Coastal Dunes/Beaches/Small Islands
<i>Scolopax minor</i>	<a href="#">American Woodcock</a>	G5	--	X	NA	--	S4B, S4N	RSGCN responsibility – low RSGCN concern – very high Highest priority Shorebird Plan	Grasslands Young Forests & Shrublands Shrub Swamps
<i>Setophaga americana</i>	<a href="#">Northern Parula</a>	G5	--	X	NA	T	<b>S1B, S4M</b>	RSGCN responsibility – low RSGCN concern – high <b>This name will be proposed; current name is <i>Parula americana</i></b>	Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Forested Swamps Riparian Forest
<i>Setophaga cerulea</i>	<a href="#">Cerulean Warbler</a>	G4	--	X	NA	--	<b>S1B, S2M</b>	RSGCN responsibility – high RSGCN concern – very high PIF Watch List Species	Riparian Forest Central Hardwoods-White Pine Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Setophaga discolor</i>	<a href="#">Prairie Warbler</a>	G5	--	X	NA	--	<b>S3S4B</b>	RSGCN responsibility – low RSGCN concern – very high PIF Watch List Species Synonym: <i>Dendroica discolor</i>	Pitch Pine-Oak Upland Forest Young Forests & Shrublands
<i>Setophaga pensylvanica</i>	<a href="#">Chestnut-sided Warbler</a>	G5	--	--	NA	--	S5B	MA Breeding Bird Atlas: down 31 blocks since 1974-1979, deemed widespread and likely declining	Young Forests & Shrublands
<i>Setophaga striata</i>	<a href="#">Blackpoll Warbler</a>	G5	--	--	NA	SC	<b>S1B, S5M</b>	<b>This name will be proposed; current name is <i>Dendroica striata</i></b>	Northern Hardwoods-Spruce-Fir Upland Forest
<i>Somateria mollissima</i>	<a href="#">Common Eider</a>	G5	--	X	NA	--	<b>S2B, S5N</b>	RSGCN responsibility – low RSGCN concern – high	Marine & Estuarine Habitats Coastal Dunes/Beaches/Small Islands Rocky Coastlines
<i>Spizella pusilla</i>	<a href="#">Field Sparrow</a>	G5	--	X	NA	--	<b>S3S4</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 69 blocks since 1974-1979, deemed widespread and likely declining	Young Forests & Shrublands
<i>Sterna dougallii</i>	<a href="#">Roseate Tern</a>	<b>G4T3</b>	LE	X	NA	E	<b>S2B, S3N</b>	RSGCN responsibility – high RSGCN concern – very high Highest priority Waterbird Plan	Salt Marsh Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats
<i>Sterna hirundo</i>	<a href="#">Common Tern</a>	G5	--	X	NA	SC	<b>S3B, S4N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Salt Marsh Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Sterna paradisaea</i>	<a href="#">Arctic Tern</a>	G5	--	X	NA	SC	<b>S1B, S1S2N</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Salt Marsh Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats
<i>Sternula antillarum</i>	<a href="#">Least Tern</a>	G4	--	X	NA	SC	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high Highest priority Waterbird Plan	Salt Marsh Coastal Dunes/Beaches/Small Islands Marine & Estuarine Habitats
<i>Sturnella magna</i>	<a href="#">Eastern Meadowlark</a>	G5	--	X	NA	--	<b>S3S4B</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas: down 316 blocks since 1974-1979, deemed local and strongly declining	Grasslands Salt Marsh
<i>Toxostoma rufum</i>	<a href="#">Brown Thrasher</a>	G5	--		NA	--	S4	RSGCN responsibility – low RSGCN concern – very high PIF Stewardship Species MA Breeding Bird Atlas: down 265 blocks since 1974-1979, deemed fairly widespread and strongly declining	Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Young Forests & Shrublands
<i>Tringa semipalmata</i>	<a href="#">Willet</a>	G5	--	X	NA	--	<b>S3B, S3N</b>	RSGCN responsibility – low RSGCN concern – very high MA Breeding Bird Atlas deems it local and strongly increasing	Coastal Dunes/Beaches/Small Islands Salt Marsh
<i>Tyto alba</i>	<a href="#">Barn Owl</a>	G5	--	X	NA	SC	<b>S2B, S2N</b>	RSGCN responsibility – low RSGCN concern – very high	Grasslands Salt Marsh
<i>Vermivora chrysoptera</i>	<a href="#">Golden-winged Warbler</a>	G4	--	X	NA	E	<b>S1B</b>	RSGCN responsibility – low RSGCN concern – very high PIF Watch List Species	Young Forests & Shrublands
<i>Vermivora cyanoptera</i>	<a href="#">Blue-winged Warbler</a>	G5	--	X	NA	--	<b>S3S4B</b>	RSGCN responsibility – high RSGCN concern – very high PIF Watch List Species	Young Forests & Shrublands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Zonotrichia albicollis</i>	<a href="#">White-throated Sparrow</a>	G5	--	--	NA	--	S5	PIF Stewardship Species MA Breeding Bird Atlas: down 182 blocks since 1974-1979, deemed local and strongly declining	Young Forests & Shrublands Peatlands Forested Swamps
<b>Mammals</b>									
<i>Alces americanus</i>	<a href="#">Moose</a>	G5	--	--	NA	--	S4		Large Unfragmented Landscape Mosaics Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Balaenoptera borealis</i>	<a href="#">Sei Whale</a>	<b>G3</b>	LE	X	NA	E	<b>S1</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Balaenoptera musculus</i>	<a href="#">Blue Whale</a>	<b>G3G4</b>	LE	X	NA	E	<b>S1</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Balaenoptera physalus</i>	<a href="#">Fin Whale</a>	<b>G3G4</b>	LE	X	NA	E	<b>S2</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Eptesicus fuscus</i>	<a href="#">Big Brown Bat</a>	G5	--	X	NA	--	S5	RSGCN responsibility – low RSGCN concern – high	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Springs, Caves & Mines
<i>Eubalaena glacialis</i>	<a href="#">Northern Right Whale</a>	<b>G1</b>	LE	X	NA	E	<b>S1</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Glaucomys sabrinus</i>	<a href="#">Northern Flying Squirrel</a>	G5	--	--	NA	--	<b>S2?</b>	Steep decline in past 40 years; associated with boreal forests	Northern Hardwoods-Spruce-Fir Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Lasionycteris noctivagans</i>	<a href="#">Silver-haired Bat</a>	G5	--	X	NA	--	<b>S3M</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Lasiurus borealis</i>	<a href="#">Eastern Red Bat</a>	G5	--	X	NA	--	<b>S3M</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Lasiurus cinereus</i>	<a href="#">Hoary Bat</a>	G5	--	X	NA	--	<b>S2B</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Lynx rufus</i>	<a href="#">Bobcat</a>	G5	--	X	NA	--	S4	RSGCN responsibility – low RSGCN concern – high	Large Unfragmented Landscape Mosaics Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Megaptera novaeangliae</i>	<a href="#">Humpback Whale</a>	G4	LE	X	NA	E	<b>S2</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Myotis leibii</i>	<a href="#">Small-footed Myotis</a>	<b>G1G3</b>	--	X	NA	E	<b>S1</b>	RSGCN responsibility – high RSGCN concern – very high	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Springs, Caves & Mines

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Myotis lucifugus</i>	<a href="#">Little Brown Myotis</a>	<b>G3</b>	--	X	NA	E	S5	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Springs, Caves & Mines
<i>Myotis septentrionalis</i>	<a href="#">Northern Myotis</a>	<b>G2G3</b>	LT	X	NA	E	S4	RSGCN responsibility – low RSGCN concern – very high <b>This name will be proposed; current name is Northern Long- eared Bat</b>	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Springs, Caves & Mines
<i>Myotis sodalis</i>	<a href="#">Indiana Myotis</a>	<b>G2</b>	LE	X	NA	E	<b>SH</b>	RSGCN responsibility – low RSGCN concern – very high	Springs, Caves & Mines
<i>Perimyotis subflavus</i>	<a href="#">Tricolored Bat</a>	<b>G3</b>	--	X	NA	E	<b>S3</b>	RSGCN responsibility – low RSGCN concern – very high	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Springs, Caves & Mines
<i>Physeter macrocephalus</i>	<a href="#">Sperm Whale</a>	<b>G3G4</b>	LE	X	NA	E	<b>S1</b>	RSGCN responsibility – low RSGCN concern – very high	Marine & Estuarine Habitats
<i>Sorex dispar</i>	<a href="#">Rock Shrew</a>	G4	--	X	NA	SC	<b>S3</b>	RSGCN responsibility – high RSGCN concern – very high	Rock Cliffs/Ridgetops/Talus Slopes
<i>Sorex palustris</i>	<a href="#">Water Shrew</a>	G5	--	X	NA	SC	<b>S3</b>	RSGCN responsibility – high RSGCN concern – high	Vernal Pools Lakes & Ponds Forested Swamps
<i>Sylvilagus transitionalis</i>	<a href="#">New England Cottontail</a>	<b>G3</b>	--	X	NA	--	<b>S2</b>	RSGCN responsibility – high RSGCN concern – very high	Young Forests & Shrublands Pitch Pine-Oak Upland Forest Forested Swamp Shrub Swamp

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Synaptomys cooperi</i>	<a href="#">Southern Bog Lemming</a>	G5	--	X	NA	SC	S2	RSGCN responsibility – low RSGCN concern – very high	Peatlands Grasslands Young Forests & Shrublands
<i>Ursus americanus</i>	<a href="#">Black Bear</a>	G5	--	--	NA	--	S4		Large Unfragmented Landscape Mosaics Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<b>Invertebrates</b>									
<b>Sponges</b>									
<i>Spongilla aspinosa</i>	<a href="#">Smooth Branched Sponge</a>	G2G3	--	NA	NA	SC	S2?		Lakes & Ponds
<b>Flatworms</b>									
<i>Seidlia remota</i>	<a href="#">Sunderland Spring Planarian</a>	G1	--	NA	NA	SC	SH	Proposed to go from E to SC. This name will be proposed; current name is <i>Polycelis remota</i>	Springs, Caves & Mines
<b>Segmented Worms</b>									
<i>Macrobdeella sestertia</i>	<a href="#">New England Medicinal Leech</a>	G2	--	NA	NA	SC	SH		Lakes & Ponds
<b>Snails</b>									
<i>Floridobia winkleyi</i>	<a href="#">New England Siltsnail</a>	G3	--	NA	NA	SC	S1		Salt Marsh
<i>Littoridinops tenuipes</i>	<a href="#">Coastal Marsh Snail</a>	G5	--	NA	NA	SC	S1		Salt Marsh
<i>Marstonia lustrica</i>	<a href="#">Boreal Marstonia</a>	G5	--	NA	NA	E	S1		Lakes & Ponds
<i>Pomatiopsis lapidaria</i>	<a href="#">Slender Walker</a>	G5	--	NA	NA	E	S1		Small Streams Large & Mid-sized Rivers
<i>Valvata sincera</i>	<a href="#">Boreal Turret Snail</a>	G5	--	NA	NA	E	SH		Lakes & Ponds
<b>Freshwater Mussels</b>									
<i>Alasmidonta heterodon</i>	<a href="#">Dwarf Wedgemussel</a>	G1G2	LE	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Large & Mid-sized Rivers

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Alasmidonta undulata</i>	<a href="#">Triangle Floater</a>	G4	--	X	NA	--	<b>S3</b>	RSGCN responsibility – high RSGCN concern – high	Lakes & Ponds Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Coastal Plain Ponds
<i>Alasmidonta varicosa</i>	<a href="#">Brook Floater</a>	<b>G3</b>	--	X	NA	E	<b>S1</b>	RSGCN responsibility – high RSGCN concern – very high <b>This name will be proposed; current name is Swollen Wedgemussel</b>	Large & Mid-sized Rivers
<i>Anodonta implicata</i>	<a href="#">Alewife Floater</a>	G5	--	X	NA	--	SU	RSGCN responsibility – high RSGCN concern – high	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers Small Streams Lakes & Ponds Coastal Plain Ponds
<i>Lampsilis cariosa</i>	<a href="#">Yellow Lampmussel</a>	<b>G3G4</b>	--	X	NA	E	<b>S1S2</b>	RSGCN responsibility – high RSGCN concern – very high	Large & Mid-sized Rivers Connecticut & Merrimack Mainstems
<i>Lampsilis radiata</i>	<a href="#">Eastern Lampmussel</a>	G5	--	--	NA	--	S4	RSGCN responsibility – high RSGCN concern – moderate	Connecticut and Merrimack Mainstems Large & Mid-sized Rivers Small Streams Lakes & Ponds Coastal Plain Ponds
<i>Leptodea ochracea</i>	<a href="#">Tidewater Mucket</a>	<b>G3G4</b>	--	X	NA	SC	<b>S2</b>	RSGCN responsibility – high RSGCN concern – very high	Lakes & Ponds Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Coastal Plain Ponds
<i>Ligumia nasuta</i>	<a href="#">Eastern Pondmussel</a>	G4	--	X	NA	SC	<b>S3</b>	RSGCN responsibility – high RSGCN concern – very high	Lakes & Ponds Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Coastal Plain Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Margaritifera margaritifera</i>	<a href="#">Eastern Pearlshell</a>	G4	--	X	NA	--	SU	RSGCN responsibility – low RSGCN concern – high	Large & Mid-sized Rivers Small Streams
<i>Strophitus undulatus</i>	<a href="#">Creeper</a>	G5	--	--	NA	SC	<b>S3</b>		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems
<b>Crustaceans</b>									
<i>Cambarus bartonii</i>	<a href="#">Appalachian Brook Crayfish</a>	G5	--	NA	NA	--	<b>S2</b>		Small Streams
<i>Eubrachipus intricatus</i>	<a href="#">Intricate Fairy Shrimp</a>	G4	--	NA	NA	SC	<b>S1</b>		Vernal Pools
<i>Eulimnadia agassizii</i>	<a href="#">Agassiz's Clam Shrimp</a>	<b>G1G2</b>	--	NA	NA	E	<b>S1</b>		Vernal Pools
<i>Gammarus pseudolimnaeus</i>	<a href="#">Northern Spring Amphipod</a>	G5	--	NA	NA	SC	<b>S2</b>		Springs, Caves & Mines
<i>Limnadia lenticularis</i>	<a href="#">American Clam Shrimp</a>	G4G5	--	NA	NA	SC	<b>S1</b>		Vernal Pools
<i>Stygobromus borealis</i>	<a href="#">Taconic Cave Amphipod</a>	<b>G2G3</b>	--	NA	NA	E	<b>S1</b>		Springs, Caves & Mines
<i>Stygobromus tenuis tenuis</i>	<a href="#">Piedmont Groundwater Amphipod</a>	G4T4	--	NA	NA	SC	<b>S1</b>		Springs, Caves & Mines
<i>Synurella chamberlaini</i>	<a href="#">Coastal Swamp Amphipod</a>	GNR	--	NA	NA	SC	<b>S1</b>		Forested Swamps
<b>Dragonflies</b>									
<i>Aeshna subarctica</i>	<a href="#">Subarctic Darner</a>	G5	--	NA	NA	E	<b>S1</b>		Peatlands
<i>Anax longipes</i>	<a href="#">Comet Darner</a>	G5	--	NA	NA	--	<b>S2S3</b>	<b>Proposed for de-listing from MESA list</b>	Coastal Plain Ponds Lakes & Ponds
<i>Boyeria grafiana</i>	<a href="#">Ocellated Darner</a>	G5	--	NA	NA	SC	<b>S2S3</b>		Large & Mid-sized Rivers Small Streams Riparian Forest
<i>Gomphus abbreviatus</i>	<a href="#">Spine-crowned Clubtail</a>	<b>G3G4</b>	--	NA	NA	SC	<b>S3</b>		Large & Mid-sized Rivers Riparian Forest
<i>Gomphus descriptus</i>	<a href="#">Harpoon Clubtail</a>	G4	--	NA	NA	E	<b>S2</b>		Large & Mid-sized Rivers Riparian Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Gomphus fraternus</i>	<a href="#">Midland Clubtail</a>	G5	--	NA	NA	E	S1		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Gomphus quadricolor</i>	<a href="#">Rapids Clubtail</a>	G3G4	--	NA	NA	E	S2		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Gomphus vastus</i>	<a href="#">Cobra Clubtail</a>	G5	--	NA	NA	SC	S2S3		Connecticut & Merrimack Mainstems Riparian Forest
<i>Gomphus ventricosus</i>	<a href="#">Skillet Clubtail</a>	G3	--	NA	NA	T	S2		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Neurocordulia obsoleta</i>	<a href="#">Umber Shadowdragon</a>	G5	--	NA	NA	SC	S3		Lakes & Ponds Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Neurocordulia yamaskanensis</i>	<a href="#">Stygian Shadowdragon</a>	G5	--	NA	NA	SC	S3		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Ophiogomphus aspersus</i>	<a href="#">Brook Snaketail</a>	G4	--	NA	NA	SC	S3		Large & Mid-sized Rivers Riparian Forest
<i>Ophiogomphus carolus</i>	<a href="#">Riffle Snaketail</a>	G5	--	NA	NA	T	S2S3		Large & Mid-sized Rivers Riparian Forest
<i>Rhionaeschna mutata</i>	<a href="#">Spatterdock Darner</a>	G4	--	NA	NA	--	S3	Proposed for de-listing from MESA list	Vernal Pools Lakes & Ponds Coastal Plain Ponds
<i>Somatochlora elongata</i>	<a href="#">Ski-tailed Emerald</a>	G5	--	NA	NA	SC	S2S3		Small Streams Riparian Forest
<i>Somatochlora forcipata</i>	<a href="#">Forcipate Emerald</a>	G5	--	NA	NA	E	S1		Small Streams Riparian Forest Peatlands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Somatochlora georgiana</i>	<a href="#">Coppery Emerald</a>	G3G4	--	NA	NA	E	S1		Small Streams Riparian Forest Peatlands
<i>Somatochlora incurvata</i>	<a href="#">Incurvate Emerald</a>	G4	--	NA	NA	E	S1		Peatlands
<i>Somatochlora kennedyi</i>	<a href="#">Kennedy's Emerald</a>	G5	--	NA	NA	E	S1		Small Streams Riparian Forest Peatlands
<i>Somatochlora linearis</i>	<a href="#">Mocha Emerald</a>	G5	--	NA	NA	SC	S2		Small Streams Riparian Forest
<i>Stylurus amnicola</i>	<a href="#">Riverine Clubtail</a>	G4	--	NA	NA	E	S2		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems Riparian Forest
<i>Williamsonia fletcheri</i>	<a href="#">Ebony Boghaunter</a>	G4	--	NA	NA	E	S1S2		Peatlands
<i>Williamsonia lintneri</i>	<a href="#">Ringed Boghaunter</a>	G3	--	NA	NA	T	S2S3		Peatlands
<b>Damselflies</b>									
<i>Enallagma carunculatum</i>	<a href="#">Tule Bluet</a>	G5	--	NA	NA	SC	S2		Lakes & Ponds
<i>Enallagma daeckii</i>	<a href="#">Attenuated Bluet</a>	G4	--	NA	NA	T	S1		Lakes & Ponds
<i>Enallagma pictum</i>	<a href="#">Scarlet Bluet</a>	G3	--	NA	NA	T	S2		Coastal Plain Ponds Lakes & Ponds
<i>Enallagma recurvatum</i>	<a href="#">Pine Barrens Bluet</a>	G3	--	NA	NA	T	S2S3		Coastal Plain Ponds Lakes & Ponds
<b>Beetles (Coleoptera)</b>									
<i>Cicindela dorsalis dorsalis</i>	<a href="#">Northeastern Beach Tiger Beetle</a>	G3G4T 2	LT	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Coastal Dunes/Beaches/Small Islands
<i>Cicindela duodecimguttata</i>	<a href="#">Twelve-Spotted Tiger Beetle</a>	G5	--	--	NA	SC	S2S3		Large & Mid-sized Rivers
<i>Cicindela limbalis</i>	<a href="#">Claybank Tiger Beetle</a>	G5	--	--	NA	SC	S1	This name will be proposed; current name is Bank Tiger Beetle	Coastal Dunes/Beaches/Small Islands
<i>Cicindela marginipennis</i>	<a href="#">Cobblestone Tiger Beetle</a>	G2	--	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – high	Connecticut & Merrimack Mainstems
<i>Cicindela patruela</i>	<a href="#">Barrens Tiger Beetle</a>	G3	--	X	NA	E	S1	RSGCN responsibility – low RSGCN concern – high	Pitch Pine-Oak Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Cicindela puritana</i>	<a href="#">Puritan Tiger Beetle</a>	G1G2	LT	X	NA	E	S1	RSGCN responsibility – high RSGCN concern – very high	Connecticut & Merrimack Mainstems
<i>Cicindela purpurea</i>	<a href="#">Purple Tiger Beetle</a>	G5	--	--	NA	SC	S2S3		Grasslands
<i>Cicindela rufiventris henzii</i>	<a href="#">Hentz's Red-bellied Tiger Beetle</a>	G5T2	--	X	NA	T	S2	RSGCN responsibility – high RSGCN concern – very high <b>This name will be proposed; current name is Hentz's Redbelly Tiger Beetle</b>	Rock Cliffs/Ridgetops/Talus Slopes
<i>Nicrophorus americanus</i>	<a href="#">American Burying Beetle</a>	G2G3	LE	X	NA	E	S1	RSGCN responsibility – not determined RSGCN concern – not determined	Grasslands Pitch Pine-Oak Upland Forest
<b>Butterflies and Moths (Lepidoptera)</b>									
<i>Abagrotis nefascia</i>	<a href="#">Coastal Heathland Cutworm</a>	G4	--	NA	NA	SC	S3		Grasslands Pitch Pine-Oak Upland Forest
<i>Acronicta albarufa</i>	<a href="#">Barrens Dagger Moth</a>	G3G4	--	NA	NA	T	S2S3	<b>This name will be proposed; current name is Barrens Daggermoth</b>	Pitch Pine-Oak Upland Forest
<i>Apamea inebriata</i>	<a href="#">Drunk Apamea Moth</a>	G3G4	--	NA	NA	SC	S2S3		Peatlands Marshes & Wet Meadows
<i>Apodrepanulatrix liberaria</i>	<a href="#">New Jersey Tea Inchworm</a>	G3	--	NA	NA	E	S1S2		Pitch Pine-Oak Upland Forest
<i>Callophrys hesseli</i>	<a href="#">Hessel's Hairstreak</a>	G3G4	--	NA	NA	SC	S2S3		Peatlands Forested Swamps
<i>Callophrys irus</i>	<a href="#">Frosted Elfin</a>	G3	--	NA	NA	SC	S2S3		Grasslands Pitch Pine-Oak Upland Forest
<i>Callophrys lanoraieensis</i>	<a href="#">Bog Elfin</a>	G3G4	--	NA	NA	T	S1		Peatlands Forested Swamps
<i>Catocala herodias gerhardi</i>	<a href="#">Herodias Underwing</a>	G3T3	--	NA	NA	SC	S2S3	<b>This name will be proposed; current name is Gerhard's Underwing</b>	Pitch Pine-Oak Upland Forest Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Catocala pretiosa pretiosa</i>	<a href="#">Precious Underwing</a>	G4T2	--	NA	NA	E	S1	This name will be proposed; current name is Precious Underwing Moth	Shrub Swamps Forested Swamps
<i>Chaetagnalea cerata</i>	<a href="#">Waxed Sallow</a>	G3G4	--	NA	NA	SC	S1S3	This name will be proposed; current name is Waxed Sallow Moth	Pitch Pine-Oak Upland Forest
<i>Cicinnus melsheimeri</i>	<a href="#">Melsheimer's Sack-bearer</a>	G4	--	NA	NA	T	S2S3	This name will be proposed; current name is Melsheimer's Sack Bearer	Pitch Pine-Oak Upland Forest
<i>Cingilia catenaria</i>	<a href="#">Chain-dotted Geometer</a>	G4	--	NA	NA	SC	S2S3	This name will be proposed; current name is Chain Dot Geometer	Pitch Pine-Oak Upland Forest Peatlands Shrub Swamps Coastal Dunes/Beaches/Small Islands
<i>Cycnia inopinatus</i>	<a href="#">Unexpected Cycnia</a>	G4	--	NA	NA	T	S2		Grasslands
<i>Dargida rubripennis</i>	<a href="#">The Pink-streak</a>	G3G4	--	NA	NA	T	S1S2	This name will be proposed; current name is The Pink Streak	Grasslands
<i>Eacles imperialis</i>	<a href="#">Imperial Moth</a>	G5	--	NA	NA	T	S1		Pitch Pine-Oak Upland Forest
<i>Erora laeta</i>	<a href="#">Early Hairstreak</a>	GU	--	NA	NA	T	S2		Northern Hardwoods-Spruce-Fir Upland Forest
<i>Erynnis persius persius</i>	<a href="#">Persius Duskywing</a>	G5T1T3	--	NA	NA	E	S1		Grasslands Pitch Pine-Oak Upland Forest
<i>Euchlaena madusaria</i>	<a href="#">Scrub Euchlaena</a>	G4	--	NA	NA	SC	S2S3	This name will be proposed; current name is Sandplain Euchlaena	Grasslands Pitch Pine-Oak Upland Forest
<i>Euphyes dion</i>	<a href="#">Dion Skipper</a>	G4	--	NA	NA	T	S2		Marshes & Wet Meadows
<i>Grammia phyllira</i>	<a href="#">Phyllira Tiger Moth</a>	G4	--	NA	NA	E	S1		Grasslands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Hemaris gracilis</i>	<a href="#">Slender Clearwing</a>	G3G4	--	NA	NA	SC	S2S3	This name will be proposed; current name is Slender Clearwing Sphinx Moth	Peatlands Shrub Swamps Pitch Pine-Oak Upland Forest Rock Cliffs/Ridgetops/ Talus Slopes
<i>Hemileuca maia</i>	<a href="#">Buck Moth</a>	G5	--	NA	NA	SC	S2S3	This name will be proposed; current name is Barrens Buckmoth	Pitch Pine-Oak Upland Forest
<i>Heterocampa varia</i>	<a href="#">Sandplain Heterocampa</a>	G3G4	--	NA	NA	T	S1S2		Pitch Pine-Oak Upland Forest Grasslands
<i>Hypomecis buchholzaria</i>	<a href="#">Buchholz's Gray</a>	G3G4	--	NA	NA	E	S1		Pitch Pine-Oak Upland Forest
<i>Lithophane viridipallens</i>	<a href="#">Pale Green Pinion</a>	G5	--	NA	NA	SC	S1S3	This name will be proposed; current name is Pale Green Pinion Moth	Shrub Swamps Forested Swamps
<i>Lycia rachelae</i>	<a href="#">Twilight Moth</a>	G4G5	--	NA	NA	E	S1		Pitch Pine-Oak Upland Forest
<i>Lycia ypsilon</i>	<a href="#">Woolly Gray</a>	G4	--	NA	NA	T	S1	This name will be proposed; current name is Pine Barrens Lycia	Pitch Pine-Oak Upland Forest
<i>Metarranthis apiciaria</i>	<a href="#">Barrens Metarranthis</a>	G1G3	--	NA	NA	E	S1		Pitch Pine-Oak Upland Forest
<i>Metarranthis pilosaria</i>	<a href="#">Heath Metarranthis</a>	G3G4	--	NA	NA	SC	S2S3	This name will be proposed; current name is Coastal Swamp Metarranthis	Peatlands Shrub Swamps
<i>Neoligia semicana</i>	<a href="#">Northern Brocade Moth</a>	G2G4	--	NA	NA	SC	S1S2		Marshes & Wet Meadows Salt Marsh
<i>Papaipema appassionata</i>	<a href="#">Pitcher-plant Borer</a>	G4	--	NA	NA	T	S2S3	This name will be proposed; current name is Pitcher Plant Borer	Peatlands
<i>Papaipema</i> sp. 2	<a href="#">Ostrich-fern Borer</a>	G3G4	--	NA	NA	SC	S2S3	This name will be proposed; current name is Ostrich Fern Borer	Riparian Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Papaipema stenocelis</i>	<a href="#">Chain-fern Borer</a>	G4	--	NA	NA	T	<b>S2S3</b>	This name will be proposed; current name is Chain Fern Borer	Peatlands Shrub Swamps
<i>Papaipema sulphurata</i>	<a href="#">Water-willow Borer</a>	<b>G2</b>	--	NA	NA	T	<b>S2</b>	This name will be proposed; current name is Water-willow Stem Borer	Lakes & Ponds Small Streams Shrub Swamps
<i>Photodes inops</i>	<a href="#">Cord-grass Borer</a>	<b>G3G4</b>	--	NA	NA	SC	<b>S2S3</b>	This name will be proposed; current name is <i>Spartina</i> Borer	Marshes & Wet Meadows Salt Marsh
<i>Pieris oleracea</i>	<a href="#">Mustard White</a>	G4G5	--	NA	NA	T	<b>S2</b>		Forested Swamps Marshes & Wet Meadows
<i>Psectraglaea carnosa</i>	<a href="#">Pink Sallow</a>	<b>G3</b>	--	NA	NA	SC	<b>S2S3</b>	This name will be proposed; current name is Pink Sallow Moth	Pitch Pine-Oak Upland Forest
<i>Ptichodis bistrigata</i>	<a href="#">Southern Ptichodis</a>	<b>G3</b>	--	NA	NA	T	<b>S1S2</b>		Grasslands Pitch Pine-Oak Upland Forest
<i>Pyrrhia aurantiago</i>	<a href="#">Orange Sallow</a>	<b>G3G4</b>	--	NA	NA	SC	<b>S3</b>	This name will be proposed; current name is Orange Sallow Moth	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Speranza exonerata</i>	<a href="#">Pine Barrens Speranza</a>	<b>G3G4</b>	--	NA	NA	SC	<b>S2S3</b>		Pitch Pine-Oak Upland Forest
<i>Stenoporpia polygrammaria</i>	<a href="#">Faded Gray</a>	GU	--	NA	NA	T	<b>S1</b>	This name will be proposed; current name is Faded Gray Geometer	Pitch Pine-Oak Upland Forest
<i>Sympistis riparia</i>	<a href="#">Dune Sympistis</a>	G4	--	NA	NA	SC	<b>S2S3</b>	This name will be proposed; current name is Dune Noctuid Moth	Coastal Dunes/Beaches/Small Islands
<i>Zale lunifera</i>	<a href="#">Pine Barrens Zale</a>	<b>G3G4</b>	--	NA	NA	SC	<b>S2S3</b>		Pitch Pine-Oak Upland Forest
<i>Zanclognatha martha</i>	<a href="#">Pine Barrens Zanclognatha</a>	G4	--	NA	NA	T	<b>S2S3</b>		Pitch Pine-Oak Upland Forest
<b>Bees</b>									
<i>Anthophora walshii</i>	<a href="#">Walsh's Anthophora</a>	GNR	--	NA	NA	--	SNR		Grasslands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Bombus affinis</i>	<a href="#">Rusty-patched Bumble Bee</a>	G1	--	NA	NA	--	SH		
<i>Bombus fervidus</i>	<a href="#">Yellow Bumble Bee</a>	G4?	--	NA	NA	--	SNR		
<i>Bombus pensylvanicus</i>	<a href="#">American Bumble Bee</a>	G3G4	--	NA	NA	--	SNR		
<i>Bombus terricola</i>	<a href="#">Yellow-banded Bumble Bee</a>	G2G4	--	NA	NA	--	SNR		
<i>Epeoloides pilosula</i>	<a href="#">Macropis Cuckoo Bee</a>	G1	--	NA	NA	--	SNR	Extremely rare parasite on <i>Lysimachia</i> specialist bees	Young Forests & Shrublands Marshes & Wet Meadows
<i>Macropis ciliata</i>	<a href="#">Ciliary Oil-collecting Bee</a>	GNR	--	NA	NA	--	SNR		Grasslands
<i>Macropis nuda</i>	<a href="#">Naked Oil-collecting Bee</a>	GNR	--	NA	NA	--	SNR		Grasslands
<i>Macropis patellata</i>	<a href="#">Patellar Oil-collecting Bee</a>	GNR	--	NA	NA	--	SNR		Grasslands
<b>Plants</b>									
<i>Actaea racemosa</i>	<a href="#">Black Cohosh</a>	G4	--	NA	IND	E	S1		Transitional Hardwoods- White Pine Upland Forest
<i>Adlumia fungosa</i>	<a href="#">Climbing Fumitory</a>	G4	--	NA	--	SC	S3		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Agalinis acuta</i>	<a href="#">Sandplain Gerardia</a>	G1	LE	NA	1	E	S1		Grasslands
<i>Agastache scrophulariifolia</i>	<a href="#">Purple Giant Hyssop</a>	G4	--	NA	2	E	S1		Northern Hardwoods- Spruce-Fir Upland Forest
<i>Ageratina aromatica</i>	<a href="#">Lesser Snakeroot</a>	G5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Agrimonia parviflora</i>	<a href="#">Small-flowered Agrimony</a>	G5	--	NA	2	E	S1		Riparian Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Agrimonia pubescens</i>	<a href="#">Hairy Agrimony</a>	G5	--	NA	--	T	S2		Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Alnus viridis ssp. crispa</i>	<a href="#">Mountain Alder</a>	G5TN R	--	NA	--	SC	S2	Proposed to go from T to SC	Connecticut & Merrimack Mainstems Large & Mid-sized Rivers
<i>Amaranthus pumilus</i>	<a href="#">Seabeach Amaranth</a>	G2	LT	NA	4	--	SH		Coastal Dunes, Beaches & Small Islands
<i>Amelanchier bartramiana</i>	<a href="#">Bartram's Shadbush</a>	G5	--	NA	--	T	S2		Transitional Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes Shrub Swamps
<i>Amelanchier sanguinea</i>	<a href="#">Roundleaf Shadbush</a>	G5	--	NA	--	SC	S3		Rock Cliffs/Ridgetops/Talus Slopes
<i>Amphicarpum ampicarpon</i>	<a href="#">Annual Peanutgrass</a>	G4	--	NA	2	E	S1	Common name will be proposed to change; current name Annual Peanut-grass	Coastal Plain Ponds
<i>Aplectrum hyemale</i>	<a href="#">Putty-root</a>	G5	--	NA	2	E	S1		Transitional Hardwoods-White Pine Upland Forest
<i>Arabidopsis lyrata</i>	<a href="#">Lyre-leaved Rock-cress</a>	G5	--	NA	--	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Arceuthobium pusillum</i>	<a href="#">Eastern Dwarf Mistletoe</a>	G5	--	NA	--	SC	S3	Common name will be proposed to change; current name is Dwarf Mistletoe	Peatlands
<i>Arethusa bulbosa</i>	<a href="#">Arethusa</a>	G4	--	NA	3(a)	T	S2		Peatlands
<i>Arisaema dracontium</i>	<a href="#">Green Dragon</a>	G5	--	NA	--	T	S2		Riparian Forest
<i>Aristida purpurascens</i>	<a href="#">Purple Needlegrass</a>	G5	--	NA	2(a)	T	S2		Grasslands Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Aristida tuberculosa</i>	<a href="#">Seabeach Needlegrass</a>	G5	--	NA	2	T	S2		Coastal Dunes/Beaches/Small Islands
<i>Asclepias purpurascens</i>	<a href="#">Purple Milkweed</a>	G5?	--	NA	2	E	S1		Grasslands Rock Cliffs/Ridgetops/Talus Slopes
<i>Asclepias verticillata</i>	<a href="#">Whorled Milkweed</a>	G5	--	NA	--	T	S2	Common name will be proposed to change; current name is Linear-leaved Milkweed	Rock Cliffs/Ridgetops/Talus Slopes
<i>Asplenium montanum</i>	<a href="#">Mountain Spleenwort</a>	G5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Asplenium ruta-muraria</i>	<a href="#">Wall-rue Spleenwort</a>	G5	--	NA	--	T	S2		Rock Cliffs/Ridgetops/Talus Slopes
<i>Betula pumila</i>	<a href="#">Swamp Birch</a>	G5	--	NA	--	E	S1		Shrub Swamps Peatlands Marshes & Wet Meadows
<i>Bidens eatonii</i>	<a href="#">Eaton's Beggar-ticks</a>	G3	--	NA	1	E	S1		Large & Mid-sized Rivers Connecticut & Merrimack Mainstems
<i>Bidens hyperborea</i>	<a href="#">Estuary Beggar-ticks</a>	G4T2T4	--	NA	--	E	S1	The variety <i>hyperborea</i> is the taxon present in MA; this taxon is G4T2T4.	Riparian Forest Large & Mid-sized Rivers
<i>Blephilia ciliata</i>	<a href="#">Downy Wood-mint</a>	G5	--	NA	2	E	S1		Transitional Hardwoods-White Pine Upland Forest
<i>Blephilia hirsuta</i>	<a href="#">Hairy Wood-mint</a>	G5?	--	NA	2	E	S1		Northern Hardwoods-Spruce-Fir Upland Forest
<i>Boechera laevigata</i>	<a href="#">Smooth Rock-cress</a>	G5	--	NA	--	SC	S2		Northern Hardwoods-Spruce-Fir Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes Riparian Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Boechera missouriensis</i>	<a href="#">Green Rock-cress</a>	G5	--	NA	2(a)	T	<b>S2</b>		Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Botrychium simplex</i>	<a href="#">Least Moonwort</a>	G5	--	NA	--	--	<b>S1S2</b>		Marshes and Wet Meadows
<i>Botrychium tenebrosum</i>	<a href="#">Swamp Moonwort</a>	G5T4? Q	--	NA	IND.	--	<b>S1S2</b>		Forested Swamps
<i>Calamagrostis pickeringii</i>	<a href="#">Pickering's Reedgrass</a>	G4	--	NA	--	E	<b>S1</b>	Common name will be proposed to change; current name is Reed Bentgrass	Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest
<i>Calamagrostis stricta</i> ssp. <i>inexpansa</i>	<a href="#">New England Northern Reed Grass</a>	G5T5	--	NA	2(a)	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Calystegia spithamea</i>	<a href="#">Upright False Bindweed</a>	G4G5	--	NA	2(a)	E	<b>S1</b>	Common name will be proposed to change; current name is Low Bindweed	Transitional Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes Grasslands
<i>Cardamine dentata</i>	<a href="#">Fen Cuckoo-flower</a>	G5T5	--	NA	2	T	<b>S1</b>	Common name will be proposed to change; current name is Fen Cuckoo Flower	Marshes & Wet Meadows
<i>Cardamine douglassii</i>	<a href="#">Purple Cress</a>	G5	--	NA	2	E	<b>S1</b>		Forested Swamps Riparian Forest
<i>Cardamine longii</i>	<a href="#">Long's Bittercress</a>	<b>G3?</b>	--	NA	1	E	<b>S1</b>	Common name will be proposed to change; current name is Long's Bitter-cress	Large & Mid-sized Rivers
<i>Carex alopecoidea</i>	<a href="#">Foxtail Sedge</a>	G5	--	NA	2	T	<b>S2</b>		Riparian Forest Marshes & Wet Meadows
<i>Carex backii</i>	<a href="#">Back's Sedge</a>	G5	--	NA	--	E	<b>S1</b>		Transitional Hardwoods-White Pine Upland Forest
<i>Carex baileyi</i>	<a href="#">Bailey's Sedge</a>	G4	--	NA	--	T	<b>S2</b>		Shrub Swamps Forested Swamps Marshes & Wet Meadows
<i>Carex bushii</i>	<a href="#">Bush's Sedge</a>	G4	--	NA	2(a)	E	<b>S1</b>		Grasslands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Carex castanea</i>	<a href="#">Chestnut-colored Sedge</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows Forested Swamps Young Forests & Shrublands Northern Hardwoods- Spruce-Fir Upland Forest
<i>Carex chordorrhiza</i>	<a href="#">Creeping Sedge</a>	G5	--	NA	3(b)	E	<b>S1</b>		Marshes & Wet Meadows
<i>Carex davisii</i>	<a href="#">Davis' Sedge</a>	G4	--	NA	2	E	<b>S1</b>		Riparian Forest
<i>Carex exilis</i>	<a href="#">Bog Sedge</a>	G5	--	NA	--	--	<b>S2S3</b>	3 current occurrences in MA	Peatlands
<i>Carex formosa</i>	<a href="#">Handsome Sedge</a>	G4	--	NA	--	T	<b>S1</b>		Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Forested Swamps Marshes & Wet Meadows
<i>Carex glaucoidea</i>	<a href="#">Glaucous Sedge</a>	G5T5	--	NA	2	E	<b>S1</b>		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Carex gracilescens</i>	<a href="#">Slender Woodland Sedge</a>	G5?	--	NA	2	E	<b>SH</b>		Upland Forest Marshes & Wet Meadows
<i>Carex grayi</i>	<a href="#">Gray's Sedge</a>	G4	--	NA	--	T	<b>S2</b>		Riparian Forest
<i>Carex hitchcockiana</i>	<a href="#">Hitchcock's Sedge</a>	G5	--	NA	--	SC	<b>S3</b>		Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest
<i>Carex lenticularis</i>	<a href="#">Shore Sedge</a>	G5	--	NA	--	T	<b>S1</b>		Large & Mid-sized Rivers Lakes & Ponds
<i>Carex livida</i>	<a href="#">Livid Sedge</a>	G5	--	NA	2	E	<b>SH</b>	Common name will be proposed to change; current name is Glaucous Sedge	Peatlands
<i>Carex lupuliformis</i>	<a href="#">False Hop Sedge</a>	G4	--	NA	--	E	<b>S1</b>	Common name will be proposed to change; current name is False Hop-sedge	Vernal Pools
<i>Carex mesochorea</i>	<a href="#">Midland Sedge</a>	G4G5	--	NA	IND	E	<b>S1</b>		Grasslands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Carex michauxiana</i>	<a href="#">Michaux's Sedge</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows Peatlands
<i>Carex mitchelliana</i>	<a href="#">Mitchell's Sedge</a>	G4	--	NA	2	T	<b>S2</b>		Salt Marsh
<i>Carex oligocarpa</i>	<a href="#">Rich Woods Sedge</a>	G4	--	NA	2	T	<b>S1?</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Carex oligosperma</i>	<a href="#">Few-seeded Sedge</a>	G5	--	NA	--	E	<b>S2</b>		Peatlands
<i>Carex pauciflora</i>	<a href="#">Few-flowered Sedge</a>		--	NA	--	E	<b>S1</b>		Peatlands
<i>Carex polymorpha</i>	<a href="#">Variable Sedge</a>	<b>G3</b>	--	NA	1	E	<b>S2</b>		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Grasslands
<i>Carex schweinitzii</i>	<a href="#">Schweinitz's Sedge</a>	<b>G3G4</b>	--	NA	1	E	<b>S1</b>		Marshes & Wet Meadows
<i>Carex sterilis</i>	<a href="#">Dioecious Sedge</a>	G5	--	NA	--	T	<b>S2</b>		Marshes & Wet Meadows
<i>Carex striata</i>	<a href="#">Walter's Sedge</a>	G4G5	--	NA	2	E	<b>S1</b>		Coastal Plain Ponds Peatlands
<i>Carex tetanica</i>	<a href="#">Fen Sedge</a>	G4G5	--	NA	--	SC	<b>S3</b>		Marshes & Wet Meadows
<i>Carex trichocarpa</i>	<a href="#">Hairy-fruited Sedge</a>	G4	--	NA	--	SC	<b>S2</b>		Riparian Forest Marshes & Wet Meadows
<i>Carex tuckermanii</i>	<a href="#">Tuckerman's Sedge</a>	G4	--	NA	--	E	<b>S1</b>		Riparian Forest Vernal Pools
<i>Carex typhina</i>	<a href="#">Cat-tail Sedge</a>	G5	--	NA	--	T	<b>S2</b>		Riparian Forest
<i>Celastrus scandens</i>	<a href="#">American Bittersweet</a>	G5	--	NA	IND	T	<b>S3</b>		Rock Cliffs/Ridgetops/Talus Slopes Young Forests and Shrublands
<i>Cerastium nutans</i>	<a href="#">Nodding Chickweed</a>	G5	--	NA	2	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Chamaelirium luteum</i>	<a href="#">Devil's-bit</a>	G5	--	NA	2	E	<b>S1</b>		Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest
<i>Chenopodium foggii</i>	<a href="#">Fogg's Goosefoot</a>	<b>G2G3</b>	--	NA	1	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Claytonia virginica</i>	<a href="#">Narrow-leaved Spring-beauty</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is <b>Narrow-leaved Spring Beauty</b>	Riparian Forest
<i>Clematis occidentalis</i>	<a href="#">Purple Clematis</a>	G5	--	NA	--	SC	S2		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Coeloglossum viride</i>	<a href="#">Long-bracted Green Orchid</a>	G5	--	NA	--	--	S3	Part of general pattern of significant decline in orchids in MA	Young Forests & Shrublands
<i>Coleataenia longifolia</i> ssp. <i>longifolia</i>	<a href="#">Long-leaved Panic-grass</a>	G5T5?	--	NA	2	T	S2	Scientific name will be proposed to change; current name is <b>Panicum rigidulum</b> ssp. <b>pubescens</b>	Coastal Plain Ponds
<i>Conioselinum chinense</i>	<a href="#">Hemlock-parsley</a>	G5	--	NA	--	SC	S3	Common name will be proposed to change; current name is <b>Hemlock Parsley</b>	Marshes & Wet Meadows
<i>Corallorhiza odontorhiza</i>	<a href="#">Autumn Coral-root</a>	G5	--	NA	--	SC	S3	Common name will be proposed to change; current name is <b>Autumn Coralroot</b>	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Corema conradii</i>	<a href="#">Broom Crowberry</a>	G4	--	NA	--	--	S3		Coastal Dunes/Beaches/Small Islands Pitch Pine-Oak Upland Forest Grasslands
<i>Coreopsis rosea</i>	<a href="#">Rose Coreopsis</a>	G3	--	NA	1	--	S3		Coastal Plain Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Crassula aquatica</i>	<a href="#">Shore Pygmy-weed</a>	G5	--	NA	--	T	S2	Common name will be proposed to change; current name is Pygmyweed	Riparian Forest Large & Mid-sized Rivers
<i>Crataegus bicknellii</i>	<a href="#">Bicknell's Hawthorn</a>	NA	--	NA	2	E	S1		Grasslands
<i>Crepidomanes intricatum</i>	<a href="#">Appalachian Bristle-fern</a>	G4G5	--	NA	2	E	S1	Common name will be proposed to change; current name is <i>Trichomanes intricatum</i>	Rock Cliffs/Ridgetops/Talus Slopes
<i>Crocianthemum dumosum</i>	<a href="#">Bushy Rockrose</a>	G3	--	NA	1	--	S3	Proposed for de-listing	Grasslands Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Coastal Dunes/Beaches/Small Islands
<i>Cryptogramma stelleri</i>	<a href="#">Fragile Rock-brake</a>	G5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Cynoglossum virginianum</i> var. <i>boreale</i>	<a href="#">Northern Wild Comfrey</a>	G5T4T5	--	NA	2	E	S1		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Cyperus engelmannii</i>	<a href="#">Engelmann's Flatsedge</a>	NA	--	NA	--	T	S2	Common name will be proposed to change; current name is Engelmann's Umbrella-sedge	Lakes & Ponds
<i>Cyperus houghtonii</i>	<a href="#">Houghton's Flatsedge</a>	G4?	--	NA	2(a)	E	S1		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Rock Cliffs/Ridgetops/Talus Slopes Grasslands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Cypripedium arietinum</i>	<a href="#">Ram's Head Lady's-slipper</a>	G3	--	NA	1	E	S1	Common name will be proposed to change; current name is Ram's-head Lady's-slipper	Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Cypripedium parviflorum</i>	<a href="#">Yellow Lady's-slipper</a>	G5	--	NA	2/IND	E	S1	Includes all varieties found in MA; NEPCoP status is 2 for var. <i>makasin</i> , IND for var. <i>parviflorum</i> Currently, only var. <i>makasin</i> is listed; adding the other two varieties is proposed	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Forested Swamps
<i>Cypripedium reginae</i>	<a href="#">Showy Lady's-slipper</a>	G4	--	NA	3(a)	E	S2		Forested Swamps Shrub Swamps Peatlands
<i>Cystopteris laurentiana</i>	<a href="#">Laurentian Bladderfern</a>	G3	--	NA	1	--	S2S3		Rock Cliffs/Ridgetops/Talus Slopes
<i>Deschampsia cespitosa</i> ssp. <i>glauca</i>	<a href="#">Tussock Hairgrass</a>	G5	--	NA	--	E	S1	G-rank is for the species as a whole; no G-rank is available for ssp. <i>glauca</i> . Common name will be proposed to change; current name is Tufted Hairgrass	Marshes & Wet Meadows Riparian Forest
<i>Desmodium cuspidatum</i>	<a href="#">Large-bracted Tick-trefoil</a>	G5	--	NA	2	T	S2		Rock Cliffs/Ridgetops/Talus Slopes Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Dichanthelium dichotomum</i> ssp. <i>mattamuskeetense</i>	<a href="#">Mattamuskeet Panic-grass</a>	G5	--	NA	2	E	S1	G-rank is for the species as a whole; no G-rank is available for ssp. <i>mattamuskeetense</i> .	Coastal Plain Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Dichanthelium ovale</i> ssp. <i>pseudopubescens</i>	<a href="#">Commons' Panic-grass</a>	G5	--	NA	2	SC	<b>S3</b>	G-rank is for the species as a whole; no G-rank is available for ssp. <i>pseudopubescens</i> . <b>Common name will be proposed to change; current name is Commons's Panic-grass</b>	Grasslands Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest
<i>Dichanthelium scabriusculum</i>	<a href="#">Rough Panic-grass</a>	G4	--	NA	2	T	<b>S1</b>		Grassland
<i>Dichanthelium wrightianum</i>	<a href="#">Wright's Panic-grass</a>	G4	--	NA	--	SC	<b>S3</b>		Coastal Plain Ponds
<i>Doellingeria infirma</i>	<a href="#">Cornel-leaved Aster</a>	G5	--	NA	2	E	<b>S1</b>		Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Elatine americana</i>	<a href="#">American Waterwort</a>	G4	--	NA	2	E	<b>S1</b>		Large & Mid-sized Rivers Lakes & Ponds
<i>Eleocharis diandra</i>	<a href="#">Wright's Spike-sedge</a>	<b>G2</b>	--	NA	1	E	<b>S1</b>	<b>Common name will be proposed to change; current name is Wright's Spike-rush</b>	Connecticut & Merrimack Mainstems
<i>Eleocharis intermedia</i>	<a href="#">Matted Spike-sedge</a>	G5	--	NA	--	T	<b>S2</b>	<b>Common name will be proposed to change; current name is Intermediate Spike-sedge</b>	Riparian Forests Large & Mid-sized Rivers
<i>Eleocharis microcarpa</i> var. <i>filiculmis</i>	<a href="#">Tiny-fruited Spike-sedge</a>	G5	--	NA	2	E	<b>S1</b>	G-rank is for the species as a whole; no G-rank is available for var. <i>filiculmis</i> .	Coastal Plain Ponds Grasslands
<i>Eleocharis ovata</i>	<a href="#">Ovate Spike-sedge</a>	G5	--	NA	IND	E	<b>S1</b>		Large & Mid-sized Rivers Lakes & Ponds
<i>Eleocharis quinqueflora</i>	<a href="#">Few-flowered Spike-sedge</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows
<i>Eleocharis tricostata</i>	<a href="#">Three-angled Spike-sedge</a>	G4	--	NA	2	E	<b>S1</b>		Coastal Plain Ponds
<i>Elymus villosus</i>	<a href="#">Hairy Wild Rye</a>	G5	--	NA	IND	E	<b>S1</b>		Riparian Forest
<i>Equisetum scirpoides</i>	<a href="#">Dwarf Scouring Rush</a>	G5	--	NA	--	SC	<b>S3</b>	<b>Common name will be proposed to change; current name is Dwarf Scouring-rush</b>	Riparian Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Eragrostis frankii</i>	<a href="#">Frank's Lovegrass</a>	G5	--	NA	--	SC	<b>S3</b>		Riparian Forest Large & Mid-sized Rivers
<i>Eriocaulon parkeri</i>	<a href="#">Parker's Pipewort</a>	<b>G3</b>	--	NA	1	E	<b>S1</b>		Large & Mid-sized Rivers
<i>Eriophorum gracile</i>	<a href="#">Slender Cotton-grass</a>	G5	--	NA	--	T	<b>S2</b>	Common name will be proposed to change; current name is Slender Cottongrass	Peatlands
<i>Eupatorium novae-angliae</i>	<a href="#">New England Boneset</a>	<b>G5T1</b>	--	NA	1	E	<b>S1</b>		Coastal Plain Ponds
<i>Galearis spectabilis</i>	<a href="#">Showy Orchid</a>	G5	--	NA	--	--	<b>S2S3</b>	Part of general pattern of significant decline in orchids in MA; 7 current occurrences	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Galium boreale</i>	<a href="#">Northern Bedstraw</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows
<i>Galium labradoricum</i>	<a href="#">Labrador Bedstraw</a>	G5	--	NA	3(b)	T	<b>S2</b>		Peatlands Marshes & Wet Meadows Shrub Swamps
<i>Gamochaeta purpurea</i>	<a href="#">Purple Cudweed</a>	G5	--	NA	4	E	<b>S1</b>		Grasslands
<i>Gentiana andrewsii</i>	<a href="#">Andrews' Bottle Gentian</a>	G5?	--	NA	2	E	<b>S1</b>		Marshes & Wet Meadows Riparian Forest
<i>Gentiana linearis</i>	<a href="#">Narrow-leaved Gentian</a>	G4G5	--	NA	--	--	<b>S2?</b>	8 current occurrences in MA	Peatlands Riparian Forests Marshes & Wet Meadows Grasslands
<i>Geum fragarioides</i>	<a href="#">Barren Strawberry</a>	G5	--	NA	--	SC	<b>S3</b>		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Goodyera repens</i>	<a href="#">Dwarf Rattlesnake-plantain</a>	G5	--	NA	--	E	<b>S1</b>		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Halenia deflexa</i>	<a href="#">Spurred Gentian</a>	G5	--	NA	--	E	<b>SH</b>		Riparian Forest
<i>Houstonia longifolia</i>	<a href="#">Long-leaved Bluet</a>	G4G5	--	NA	--	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Huperzia appressa</i>	<a href="#">Appalachian Fir-moss</a>	G5	--	NA	IND	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Huperzia selago</i>	<a href="#">Mountain Fir-moss</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Mountain Firmoss	Rock Cliffs/Ridgetops/Talus Slopes
<i>Hydrastis canadensis</i>	<a href="#">Golden Seal</a>	G3G4	--	NA	2	E	S1		Transitional Hardwoods-White Pine Upland Forest
<i>Hydrocotyle verticillata</i>	<a href="#">Saltpond Pennywort</a>	G5	--	NA	2	T	S2		Salt Marsh
<i>Hydrophyllum canadense</i>	<a href="#">Broad Waterleaf</a>	G5	--	NA	2	E	S1		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Hypericum adpressum</i>	<a href="#">Creeping St. John's-wort</a>	G3	--	NA	1	T	S2		Coastal Plain Ponds
<i>Hypericum ascyron</i>	<a href="#">Great St. John's-wort</a>	G4	--	NA	--	E	S1	Common name will be proposed to change; current name is Giant St. John's-wort	Large & Mid-sized Rivers Connecticut & Merrimack Mainstems
<i>Hypericum stragulum</i>	<a href="#">St. Andrew's Cross</a>	G5T4	--	NA	2	E	S1		Grasslands
<i>Ilex montana</i>	<a href="#">Big-leaved Winterberry</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Mountain Winterberry	Northern Hardwoods-Spruce-Fir Upland Forest
<i>Isoetes acadensis</i>	<a href="#">Acadian Quillwort</a>	G3Q	--	NA	1	E	S1		Coastal Plain Ponds
<i>Isoetes lacustris</i>	<a href="#">Lake Quillwort</a>	G5	--	NA	3(b)	E	S1		Coastal Plain Ponds
<i>Isotria medeoloides</i>	<a href="#">Small Whorled Pogonia</a>	G2?	LT	NA	1	E	S1		Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Juncus debilis</i>	<a href="#">Weak Rush</a>	G5	--	NA	2	E	S1		Coastal Plain Ponds Peatlands Coastal Dunes/Beaches/Small Islands
<i>Juncus filiformis</i>	<a href="#">Thread Rush</a>	G5	--	NA	--	E	S1		Peatlands Marshes & Wet Meadows Lakes & Ponds
<i>Lachnanthes caroliniana</i>	<a href="#">Redroot</a>	G4	--	NA	--	SC	S3	Scientific name will be proposed to change; current name is <i>Lachnanthes caroliana</i>	Coastal Plain Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Lathyrus palustris</i>	<a href="#">Marsh-pea</a>	G5	--	NA	--	--	SNR	2 current occurrences in MA	Coastal Dunes/Beaches/Small Islands Marshes & Wet Meadows Grasslands
<i>Lechea pulchella</i> var. <i>moniliformis</i>	<a href="#">Beaded Pinweed</a>	G5T4	--	NA	--	E	<b>S1</b>	Common name will be proposed to change; current name is Bead Pinweed	Grasslands
<i>Leptochloa fusca</i> ssp. <i>fascicularis</i>	<a href="#">Saltpond Grass</a>	G5T5	--	NA	2	T	<b>S1</b>		Salt Marsh
<i>Leymus mollis</i> ssp. <i>mollis</i>	<a href="#">Sea Lyme-grass</a>	G5T5	--	NA	--	E	<b>S1</b>		Coastal Dunes/Beaches/Small Islands
<i>Liatris novae-angliae</i>	<a href="#">New England Blazing Star</a>	<b>G5?T3</b>	--	NA	1	SC	<b>S3</b>	Scientific name will be proposed to change; current name is <i>Liatris scariosa</i> var. <i>novae- angliae</i>	Grasslands Coastal Dunes/Beaches/Small Islands Rock Cliffs/Ridgetops/Talus Slopes
<i>Linnaea borealis</i> ssp. <i>americana</i>	<a href="#">American Twinflower</a>	G5T5	--	NA	--	SC	<b>S3</b>	Proposed to be listed as SC on the MESA list	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes Forested Swamps Peatlands
<i>Linum intercursum</i>	<a href="#">Sandplain Flax</a>	G4	--	NA	--	--	<b>S3</b>	Proposed for delisting	Grasslands
<i>Linum medium</i> var. <i>texanum</i>	<a href="#">Stiff Yellow Flax</a>	G5T5	--	NA	2	T	<b>S1</b>	Common name will be proposed to change; current name is Rigid Flax	Grasslands
<i>Liparis liliifolia</i>	<a href="#">Lily-leaf Twayblade</a>	G5	--	NA	2	T	<b>S2</b>		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Liparis loeselii</i>	<a href="#">Loesel's Twayblade</a>	G5	--	NA	--	--	SNR	Part of general pattern of significant decline in orchids in MA	Peatlands Marshes & Wet Meadows Lakes & Ponds
<i>Lipocarpa micrantha</i>	<a href="#">Dwarf Bulrush</a>	G5	--	NA	--	T	<b>S2</b>		Coastal Plain Ponds Lakes & Ponds
<i>Lobelia siphilitica</i>	<a href="#">Great Blue Lobelia</a>	G5	--	NA	--	E	<b>S1</b>		Riparian Forest Marshes & Wet Meadows
<i>Lonicera hirsuta</i>	<a href="#">Hairy Honeysuckle</a>	G4G5	--	NA	2	E	<b>S1</b>		Northern Hardwoods- Spruce-Fir Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Ludwigia polycarpa</i>	<a href="#">Many-fruited Seedbox</a>	G4	--	NA	2	E	<b>S1</b>	Common name will be proposed to change; current name is Many-fruited False-loosestrife	Riparian Forest
<i>Ludwigia sphaerocarpa</i>	<a href="#">Round-fruited Seedbox</a>	G5	--	NA	2	E	<b>S1</b>	Common name will be proposed to change; current name is Round-fruited False-loosestrife	Coastal Plain Ponds Large & Mid-sized Rivers Lakes & Ponds
<i>Lupinus perennis</i>	<a href="#">Wild Lupine</a>	G5	--	NA	3(a)	--	<b>S3S4</b>	Rapid decline, due to woody succession and fire suppression	Grasslands Young Forests & Shrublands
<i>Luzula parviflora</i> ssp. <i>melanocarpa</i>	<a href="#">Black-fruited Woodrush</a>	G5T5	--	NA	--	E	<b>S1</b>		Northern Hardwoods- Spruce-Fir Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Lycopodiella alopecuroides</i>	<a href="#">Foxtail Clubmoss</a>	G5	--	NA	2	E	<b>S1</b>		Peatlands
<i>Lycopus rubellus</i>	<a href="#">Taper-leaf Water-horehound</a>	G5	--	NA	2	E	<b>S1S2</b>	Common name will be proposed to change; current name is Gypsywort	Forested Swamps Small Streams
<i>Lygodium palmatum</i>	<a href="#">Climbing Fern</a>	G4	--	NA	--	SC	<b>S3</b>		Forested Swamps Shrub Swamps Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Magnolia virginiana</i>	<a href="#">Sweet Bay</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Sweetbay Magnolia	Forested Swamps
<i>Malaxis bayardii</i>	<a href="#">Bayard's Adder's Mouth</a>	G1G2	--	NA	1	E	S1	Common name will be proposed to change; current name is Bayard's Green Adder's-mouth	Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Pitch Pine-Oak Upland Forest Grasslands
<i>Malaxis monophyllos</i> var. <i>brachypoda</i>	<a href="#">White Adder's Mouth</a>	G4Q	--	NA	2(a)	E	S1	Common name will be proposed to change; current name is White Adder's-mouth	Forested Swamps Peatlands
<i>Malaxis unifolia</i>	<a href="#">Green Adder's Mouth</a>	G5	--	NA	--	T	S2?	Proposed to be listed as T on the MESA list	Forested Swamps Marshes & Wet Meadows
<i>Mertensia maritima</i>	<a href="#">Oysterleaf</a>	G5	--	NA	3(b)	E	S1		Coastal Dunes/Beaches/Small Islands
<i>Milium effusum</i>	<a href="#">Woodland-millet</a>	G5	--	NA	--	T	S2	Common name will be proposed to change; current name is Woodland Millet	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Mimulus alatus</i>	<a href="#">Winged Monkey-flower</a>	G5	--	NA	2(a)	E	S1		Riparian Forest Marshes & Wet Meadows
<i>Mimulus moschatus</i>	<a href="#">Muskflower</a>	G5	--	NA	2	T	S1	Proposed to go from E to T on the MESA list	Marshes & Wet Meadows Riparian Forest
<i>Minuartia michauxii</i>	<a href="#">Michaux's Sandwort</a>	G5	--	NA	--	T	S2		Rock Cliffs/Ridgetops/Talus Slopes
<i>Moehringia macrophylla</i>	<a href="#">Large-leaved Sandwort</a>	G5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes Northern Hardwoods-Spruce-Fir Upland Forest
<i>Moneses uniflora</i>	<a href="#">One-flowered Pyrola</a>	G5	--	NA	--	SC	S2S3	Propose to be listed as SC	Shrub Swamps Forested Swamps

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Morus rubra</i>	<a href="#">Red Mulberry</a>	G5	--	NA	2	E	S1		Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Myriophyllum alterniflorum</i>	<a href="#">Slender Water-milfoil</a>	G5	--	NA	--	E	S1	Common name will be proposed to change; current name is Alternate-flowered Water-milfoil	Lakes & Ponds
<i>Myriophyllum farwellii</i>	<a href="#">Farwell's Water-milfoil</a>	G5	--	NA	--	E	S1		Lakes & Ponds
<i>Myriophyllum pinnatum</i>	<a href="#">Pinnate Water-milfoil</a>	G5	--	NA	2	SC	S2		Lakes & Ponds
<i>Myriophyllum verticillatum</i>	<a href="#">Whorled Water-milfoil</a>	G5	--	NA	--	E	S1	Common name will be proposed to change; current name is Comb Water-milfoil	Lakes & Ponds
<i>Nabalus serpentarius</i>	<a href="#">Lion's Foot</a>	G5	--	NA	2	E	S1		Grasslands Rock Cliffs/Ridgetops/Talus Slopes
<i>Neottia bifolia</i>	<a href="#">Southern Twayblade</a>	G4	--	NA	2	T	S1	Proposed for listing as T on the MESA list	Peatlands Forested Swamps
<i>Neottia cordata</i>	<a href="#">Heartleaf Twayblade</a>	G5	--	NA	3(b)	E	S1	Scientific name will be proposed to change; current name is <i>Listera cordata</i>	Peatlands
<i>Nuphar microphylla</i>	<a href="#">Tiny Cow-lily</a>	G5T4T 5	--	NA	--	E	S1		Connecticut & Merrimack Mainstems Large & Mid-sized Rivers
<i>Oligoneuron album</i>	<a href="#">Upland White Goldenrod</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Upland White Aster	Rock Cliffs/Ridgetops/Talus Slopes
<i>Ophioglossum pusillum</i>	<a href="#">Adder's Tongue Fern</a>	G5	--	NA	3(a)	T	S2	Common name will be proposed to change; current name is Adder's-tongue Fern	Marshes & Wet Meadows Peatlands
<i>Opuntia humifusa</i>	Eastern Prickly Pear	G5	--	NA	--	E	S1	Common name will be proposed to change; current name is Prickly Pear	Coastal Dunes/Beaches/Small Islands
<i>Orontium aquaticum</i>	<a href="#">Golden Club</a>	G5	--	NA	2	E	S1		Lakes & Ponds Peatlands

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Orthilia secunda</i>	<a href="#">One-sided Wintergreen</a>	G5	--	NA	--	--	SNR	Substantial decline; possibly only 2 current occurrences in MA	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Forested Swamps
<i>Oxalis violacea</i>	<a href="#">Violet Wood-sorrel</a>	G5	--	NA	2	E	<b>S1</b>		Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Panax quinquefolius</i>	<a href="#">American Ginseng</a>	<b>G3G4</b>	--	NA	1	SC	<b>S3</b>	Common name will be proposed to change; current name is Ginseng	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Panicum philadelphicum</i> ssp. <i>gattingeri</i>	<a href="#">Gattinger's Panic-grass</a>	G4	--	NA	IND	SC	<b>S2</b>		Rock Cliffs/Ridgetops/Talus Slopes Grasslands
<i>Panicum philadelphicum</i> ssp. <i>philadelphicum</i>	<a href="#">Philadelphia Panic-grass</a>	G4	--	NA	--	SC	<b>S3</b>	G-rank is for <i>Panicum gattingeri</i> ; the G-rank for the taxon <i>P. philadelphicum</i> ssp. <i>philadelphicum</i> has not been determined.	Coastal Plain Ponds
<i>Paronychia argyrocoma</i>	<a href="#">Silverling</a>	G4	--	NA	2(a)	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes Connecticut & Merrimack Mainstems
<i>Pedicularis lanceolata</i>	<a href="#">Swamp Lousewort</a>	G5	--	NA	2	E	<b>S1</b>		Marshes & Wet Meadows Shrub Swamps
<i>Penstemon hirsutus</i>	<a href="#">Hairy Beard-tongue</a>	G4	--	NA	--	E	<b>S1</b>	Common name will be proposed to change; current name is Hairy Beardtongue	Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Persicaria puritanorum</i>	<a href="#">Pondshore Smartweed</a>	NA	--	NA	2	SC	<b>S3</b>	Common name will be proposed to change; current name is Pondshore Knotweed	Coastal Plain Ponds
<i>Persicaria setacea</i>	<a href="#">Swamp Smartweed</a>	G5	--	NA	2	T	<b>S2</b>	Common name will be proposed to change; current name is Strigose Knotweed	Coastal Plain Ponds
<i>Petasites frigidus</i> var. <i>palmaris</i>	<a href="#">Sweet Coltsfoot</a>	G5T5	--	NA	--	E	<b>S1</b>		Forested Swamps
<i>Platanthera aquilonis</i>	<a href="#">North Wind Orchid</a>	G5	--	NA	--	--	SNR	Part of general pattern of significant decline in orchids in MA	Peatlands Marshes & Wet Meadows Forested Swamps
<i>Platanthera cristata</i>	<a href="#">Crested Fringed Orchid</a>	G5	--	NA	2	E	<b>S1</b>	Common name will be proposed to change; current name is Crested Fringed Orchid	Marshes & Wet Meadows
<i>Platanthera dilatata</i>	<a href="#">Leafy White Orchid</a>	G5	--	NA	--	T	<b>S2</b>	Common name will be proposed to change; current name is Leafy White Orchid	Marshes & Wet Meadows Peatlands
<i>Platanthera flava</i> var. <i>herbiola</i>	<a href="#">Pale Green Orchid</a>	G4?T4 Q	--	NA	--	T	<b>S2</b>	Common name will be proposed to change; current name is Pale Green Orchid	Marshes & Wet Meadows
<i>Platanthera hookeri</i>	<a href="#">Hooker's Orchid</a>	G4	--	NA	--	--	<b>S2?</b>	Part of general pattern of significant decline in orchids in MA 3 current occurrences	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Platanthera huronensis</i>	<a href="#">Northern Green Orchid</a>	G5T5?	--	NA	IND	--	<b>S2?</b>	Part of general pattern of significant decline in orchids in MA Synonym: <i>Platanthera hyperborea</i> var. <i>huronensis</i>	Peatlands Marshes & Wet Meadows Riparian Forests

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Platanthera macrophylla</i>	<a href="#">Large Round-leaved Orchid</a>	G5T4	--	NA	--	--	<b>S2?</b>	Part of general pattern of significant decline in orchids in MA 4 current occurrences Synonym: <i>Platanthera orbiculata</i> var. <i>macrophylla</i>	Northern Hardwoods-Spruce-Fir Upland Forest Forested Swamps
<i>Platanthera orbiculata</i>	<a href="#">Round-leaved Orchid</a>	G5	--	NA	--	--	<b>S1S2</b>	Part of general pattern of significant decline in orchids in MA 5 current occurrences	Peatlands Northern Hardwoods-Spruce-Fir Upland Forest Forested Swamps Marshes & Wet Meadows
<i>Poa saltuensis</i> ssp. <i>languida</i>	<a href="#">Drooping Speargrass</a>	G5	--	NA	2	E	<b>S2</b>	G-rank is for the species as a whole; no G-rank is available for ssp. <i>languida</i> .	Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Polygonum glaucum</i>	<a href="#">Sea-beach Knotweed</a>	<b>G3</b>	--	NA	1	SC	<b>S3</b>		Coastal Dunes/Beaches/Small Islands
<i>Polystichum braunii</i>	<a href="#">Braun's Holly-fern</a>	G5	--	NA	--	E	<b>S1</b>		Northern Hardwoods-Spruce-Fir Upland Forest
<i>Populus heterophylla</i>	<a href="#">Swamp Cottonwood</a>	G5	--	NA	2	E	<b>S1</b>		Forested Swamps Vernal Pools
<i>Potamogeton confervoides</i>	<a href="#">Tuckerman's Pondweed</a>	G4	--	NA	--	T	<b>S2</b>	Common name will be proposed to change; current name is <a href="#">Algae-like Pondweed</a>	Lakes & Ponds Peatlands
<i>Potamogeton friesii</i>	<a href="#">Fries' Pondweed</a>	G5	--	NA	--	E	<b>S1</b>		Lakes & Ponds
<i>Potamogeton gemmiparus</i>	<a href="#">Budding Pondweed</a>	<b>G5T3</b>	--	NA	1	--	<b>S2?</b>		Lakes & Ponds Large & Mid-sized Rivers
<i>Potamogeton hillii</i>	<a href="#">Hill's Pondweed</a>	<b>G3</b>	--	NA	1	SC	<b>S3</b>		Lakes & Ponds
<i>Potamogeton ogdenii</i>	<a href="#">Ogden's Pondweed</a>	<b>G1G2</b>	--	NA	1	E	<b>S1</b>		Lakes & Ponds
<i>Potamogeton strictifolius</i>	<a href="#">Straight-leaved Pondweed</a>	G5	--	NA	--	E	<b>S1</b>		Lakes & Ponds
<i>Potamogeton vaseyi</i>	<a href="#">Vasey's Pondweed</a>	G4	--	NA	--	E	<b>S1</b>		Lakes & Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Prunus pumila</i> var. <i>depressa</i>	<a href="#">Sandbar Cherry</a>	G5T5	--	NA	--	T	S2		Connecticut & Merrimack Mainstems Large & Mid-sized Rivers
<i>Pyrola asarifolia</i> ssp. <i>asarifolia</i>	<a href="#">Pink Pyrola</a>	G5T5	--	NA	--	E	SH		Peatlands Forested Swamps
<i>Quercus macrocarpa</i>	<a href="#">Bur Oak</a>	G5	--	NA	--	SC	S3		Forested Swamps
<i>Quercus muehlenbergii</i>	<a href="#">Yellow Oak</a>	G5	--	NA	--	T	S2		Central Hardwoods-White Pine Upland Forest
<i>Ranunculus micranthus</i>	<a href="#">Small-flowered Buttercup</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Tiny-flowered Buttercup	Transitional Hardwoods-White Pine Upland Forest Central Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Ranunculus pensylvanicus</i>	<a href="#">Bristly Buttercup</a>	G5	--	NA	--	SC	S2		Riparian Forest
<i>Rhexia mariana</i>	<a href="#">Maryland Meadow-beauty</a>	G5	--	NA	2	E	S1	Common name will be proposed to change; current name is Maryland Meadow Beauty	Coastal Plain Ponds
<i>Rhododendron maximum</i>	<a href="#">Great Laurel</a>	G5	--	NA	--	T	S1S2		Forested Swamps Peatlands
<i>Rhynchospora capillacea</i>	<a href="#">Capillary Beak-sedge</a>	G4	--	NA	2	E	S1		Marshes & Wet Meadows
<i>Rhynchospora inundata</i>	<a href="#">Inundated Horned-sedge</a>	G4?	--	NA	2	T	S2		Coastal Plain Ponds
<i>Rhynchospora nitens</i>	<a href="#">Short-beaked Bald-sedge</a>	G4?	--	NA	2	T	S2		Coastal Plain Ponds
<i>Rhynchospora scirpoides</i>	<a href="#">Long-beaked Bald-sedge</a>	G4	--	NA	--	SC	S3		Coastal Plain Ponds
<i>Rhynchospora torreyana</i>	<a href="#">Torrey's Beak-sedge</a>	G4	--	NA	2	E	S1		Coastal Plain Ponds
<i>Ribes lacustre</i>	<a href="#">Bristly Black Currant</a>	G5	--	NA	--	SC	S3		Northern Hardwoods-Spruce-Fir Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Rosa acicularis</i> ssp. <i>sayi</i>	<a href="#">Northern Prickly Rose</a>	G5T5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Rotala ramosior</i>	<a href="#">Toothcup</a>	G5	--	NA	2	E	S1		Coastal Plain Ponds Lakes & Ponds
<i>Rumex pallidus</i>	<a href="#">Seabeach Dock</a>	G4	--	NA	--	T	S2		Coastal Dunes/Beaches/Small Islands
<i>Rumex verticillatus</i>	<a href="#">Swamp Dock</a>	G5	--	NA	--	T	S1S2		Forested Swamps Riparian Forest Shrub Swamps
<i>Sabatia campanulata</i>	<a href="#">Slender Marsh Pink</a>	G5	--	NA	2	E	S1		Coastal Plain Ponds
<i>Sabatia kennedyana</i>	<a href="#">Plymouth Gentian</a>	G3	--	NA	1	SC	S3		Coastal Plain Ponds
<i>Sabatia stellaris</i>	<a href="#">Sea Pink</a>	G5	--	NA	2	E	S1		Coastal Plain Ponds
<i>Sagittaria cuneata</i>	<a href="#">Wapato</a>	G5	--	NA	--	T	S2		Riparian Forest Large & Mid-sized Rivers
<i>Sagittaria montevidensis</i> <i>ssp. spongiosa</i>	<a href="#">Estuary Arrowhead</a>	G5T4	--	NA	--	E	S1		Connecticut & Merrimack Mainstems
<i>Sagittaria teres</i>	<a href="#">Terete Arrowhead</a>	G3	--	NA	1	SC	S3		Coastal Plain Ponds
<i>Salix exigua ssp. interior</i>	<a href="#">Sandbar Willow</a>	G5	--	NA	--	T	S2		Connecticut & Merrimack Mainstems
<i>Sanicula canadensis</i>	<a href="#">Canadian Sanicle</a>	G5	--	NA	--	T	S2		Northern Hardwoods- Spruce-Fir Upland Forest Forested Swamps
<i>Sanicula odorata</i>	<a href="#">Clustered Sanicle</a>	G5	--	NA	--	T	S2	Common name will be proposed to change; current name is Long-styled Sanicle	Northern Hardwoods- Spruce-Fir Upland Forest Transitional Hardwoods- White Pine Upland Forest Riparian Forest
<i>Scheuchzeria palustris</i>	<a href="#">Pod-grass</a>	G5	--	NA	--	E	S1		Peatlands
<i>Scirpus ancistrochaetus</i>	<a href="#">Northeastern Bulrush</a>	G3	LE	NA	1	E	S1		Marshes & Wet Meadows
<i>Scirpus longii</i>	<a href="#">Long's Bulrush</a>	G2G3	--	NA	1	T	S2		Marshes & Wet Meadows
<i>Scleria pauciflora</i>	<a href="#">Papillose Nut-sedge</a>	G5	--	NA	2	E	S2	Common name will be proposed to change; current name is Papillose Nut Sedge	Grasslands
<i>Scleria triglomerata</i>	<a href="#">Tall Nut-sedge</a>	G5	--	NA	2	E	S1		Grasslands
<i>Sclerolepis uniflora</i>	<a href="#">One-flower Sclerolepis</a>	G4	--	NA	2	E	S1	Common name will be proposed to change; current name is Sclerolepis	Lakes & Ponds

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Senna hebecarpa</i>	<a href="#">Wild Senna</a>	G5	--	NA	2	E	<b>S1</b>		Grasslands
<i>Setaria parviflora</i>	<a href="#">Bristly Foxtail</a>	G5	--	NA	--	SC	<b>S3</b>		Salt Marsh Coastal Dunes/Beaches/Small Islands
<i>Silene caroliniana</i> ssp. <i>pennsylvanica</i>	<a href="#">Wild Pink</a>	G5T4T 5	--	NA	--	--	<b>S2S3</b>	5 current occurrences in MA	Grasslands Young Forests & Shrublands Central Hardwoods-White Pine Upland Forest
<i>Sisyrinchium fuscatum</i>	<a href="#">Sandplain Blue-eyed Grass</a>	G5?	--	NA	--	SC	<b>S3</b>		Grasslands
<i>Sisyrinchium mucronatum</i>	<a href="#">Slender Blue-eyed Grass</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows
<i>Solidago macrophylla</i>	<a href="#">Large-leaved Goldenrod</a>	G5	--	NA	--	SC	<b>S2</b>	Proposed to go from T to SC on the MESA list	Northern Hardwoods- Spruce-Fir Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Solidago simplex</i> ssp. <i>randii</i> var. <i>monticola</i>	<a href="#">Rand's Goldenrod</a>	G5TN R	--	NA	3(b)	E	<b>S1</b>		Transitional Hardwoods- White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Sorbus decora</i>	<a href="#">Northern Mountain- ash</a>	G4G5	--	NA	--	E	<b>S1</b>		Northern Hardwoods- Spruce-Fir Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Sparganium natans</i>	<a href="#">Small Bur-reed</a>	G5	--	NA	3(b)	E	<b>S1</b>		Lakes & Ponds
<i>Spartina cynosuroides</i>	<a href="#">Salt Reedgrass</a>	G5	--	NA	2	T	<b>S2</b>		Salt Marsh
<i>Sphenopholis nitida</i>	<a href="#">Shining Wedgescale</a>	G5	--	NA	2(a)	T	<b>S2</b>	Common name will be proposed to change; current name is Shining Wedgegrass	Transitional Hardwoods- White Pine Upland Forest Central Hardwoods-White Pine Upland Forest
<i>Sphenopholis pennsylvanica</i>	<a href="#">Swamp Wedgescale</a>	G4	--	NA	2	T	<b>S1S2</b>	Common name will be proposed to change; current name is Swamp Oats	Marshes & Wet Meadows
<i>Spiranthes romanzoffiana</i>	<a href="#">Hooded Ladies'- tresses</a>	G5	--	NA	--	E	<b>S1</b>		Marshes & Wet Meadows

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCOP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Spiranthes vernalis</i>	<a href="#">Grass-leaved Ladies'-tresses</a>	G5	--	NA	--	T	S2		Grasslands
<i>Sporobolus neglectus</i>	<a href="#">Small Dropseed</a>	G5	--	NA	2	E	S2		Rock Cliffs/Ridgetops/Talus Slopes
<i>Suaeda calceoliformis</i>	<a href="#">American Sea-blite</a>	G5	--	NA	2	SC	S2S3		Coastal Dunes/Beaches/Small Islands
<i>Suaeda maritima</i> ssp. <i>richii</i>	<a href="#">Rich's Sea-blite</a>	G5T3	--	NA	1	--	S2S3		Salt Marsh Coastal Dunes/Beaches/Small Islands
<i>Symphoricarpos albus</i> var. <i>albus</i>	<a href="#">Snowberry</a>	G5T5	--	NA	--	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Symphyotrichum concolor</i>	<a href="#">Eastern Silvery Aster</a>	G5	--	NA	2	E	S1		Grasslands
<i>Symphyotrichum praealtum</i>	<a href="#">Willow Aster</a>	G5	--	NA	2	--	S1	Recently rediscovered in MA; 1 current occurrence	Grasslands Marshes & Wet Meadows
<i>Symphyotrichum prenanthoides</i>	<a href="#">Crooked-stemmed Aster</a>	G4G5	--	NA	2	SC	S2	Common name will be proposed to change; current name is Crooked-stem Aster	Riparian Forest Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Symphyotrichum tradescantii</i>	<a href="#">Tradescant's Aster</a>	G4Q	--	NA	--	T	S2		Connecticut & Merrimack Mainstems
<i>Thuja occidentalis</i>	<a href="#">Arborvitae</a>	G5	--	NA	--	E	S1		Forested Swamps
<i>Tipularia discolor</i>	<a href="#">Cranefly Orchid</a>	G4G5	--	NA	2	E	S1		Central Hardwoods-White Pine Upland Forest
<i>Trichostema brachiatum</i>	<a href="#">False Pennyroyal</a>	G5	--	NA	2	E	S1		Rock Cliffs/Ridgetops/Talus Slopes
<i>Triosteum perfoliatum</i>	<a href="#">Broad Tinker's-weed</a>	G5	--	NA	2	E	S1		Grasslands
<i>Triphora trianthophoros</i>	<a href="#">Nodding Pogonia</a>	G3G4	--	NA	--	E	S1	Scientific name will be proposed to change; current name is <i>Triphora trianthophora</i>	Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest
<i>Tripsacum dactyloides</i>	<a href="#">Northern Gama-grass</a>	G5	--	NA	--	E	S1		Salt Marsh

Scientific Name	Common Name	Globally Rare	Federal List	RSGCN	NEPCoP	MESA	State Rank	Other Concerns/ Comments	SWAP Habitats
<i>Trisetum spicatum</i>	<a href="#">Narrow False Oats</a>	G5	--	NA	--	E	<b>S1</b>	Common name will be proposed to change; current name is Spiked False Oats	Rock Cliffs/Ridgetops/Talus Slopes
<i>Utricularia resupinata</i>	<a href="#">Resupinate Bladderwort</a>	G4	--	NA	--	T	<b>S2</b>		Lakes & Ponds
<i>Utricularia subulata</i>	<a href="#">Slender Bladderwort</a>	G5	--	NA	2	SC	<b>S3</b>	Common name will be proposed to change; current name is Subulate Bladderwort	Coastal Plain Ponds
<i>Vaccinium vitis-idaea</i> ssp. <i>minus</i>	<a href="#">Mountain Cranberry</a>	G5T5	--	NA	3(b)	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Verbena simplex</i>	<a href="#">Narrow-leaved Vervain</a>	G5	--	NA	2	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes
<i>Veronica catenata</i>	<a href="#">Sessile Water-speedwell</a>	NA	--	NA	2	E	<b>S1</b>		Marshes & Wet Meadows
<i>Veronicastrum virginicum</i>	<a href="#">Culver's-root</a>	G4	--	NA	IND	T	<b>S2</b>		Marshes & Wet Meadows
<i>Viburnum rafinesquianum</i>	<a href="#">Downy Arrowwood</a>	G5	--	NA	--	E	<b>S1</b>		Northern Hardwoods-Spruce-Fir Upland Forest Transitional Hardwoods-White Pine Upland Forest Rock Cliffs/Ridgetops/Talus Slopes
<i>Viola adunca</i>	<a href="#">Sand Violet</a>	G5	--	NA	--	SC	<b>S3</b>		Grasslands
<i>Viola brittoniana</i>	<a href="#">Britton's Violet</a>	G4G5	--	NA	1/2	T	<b>S1</b>	Includes <i>Viola pectinata</i> ; NEPCoP status for <i>V. brittoniana</i> is 2; status for <i>V. pectinata</i> is 1.	Marshes & Wet Meadows Riparian Forest
<i>Woodsia glabella</i>	<a href="#">Smooth Woodsia</a>	G5	--	NA	2(a)	E	<b>S1</b>		Rock Cliffs/Ridgetops/Talus Slopes

**Abbreviations:**

- **Global Rank:** These are the conservation status ranks as defined by NatureServe (NatureServe 2014). Ranks considered globally rare (G1 through G3G4) are in bold in the table above.

Basic Ranks

Rank	Definition
GX	Presumed Extinct (species) — Not located despite intensive searches and virtually no likelihood of rediscovery. Eliminated (ecological communities)—Eliminated throughout its range, with no restoration potential due to extinction of dominant or characteristic species.
GH	Possibly Extinct (species) — Missing; known from only historical occurrences but still some hope of rediscovery. Presumed Eliminated — (Historic, ecological communities) - Presumed eliminated throughout its range, with no or virtually no likelihood that it will be rediscovered, but with the potential for restoration, for example, American Chestnut (Forest).
G1	Critically Imperiled — At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2	Imperiled — At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3	Vulnerable — At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
G4	Apparently Secure — Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5	Secure — Common; widespread and abundant.

Variant Ranks

Rank	Definition
G#G#	Range Rank—A numeric range rank (e.g., G2G3) is used to indicate the range of uncertainty in the status of a species or community. Ranges cannot skip more than one rank (e.g., GU should be used rather than G1G4).
GU	Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends. Whenever possible, the most likely rank is assigned and the question mark qualifier is added (e.g., G2?) to express uncertainty, or a range rank (e.g., G2G3) is used to delineate the limits (range) of uncertainty.
GNR	Unranked—Global rank not yet assessed.
GNA	Not Applicable—A conservation status rank is not applicable because the species is not a suitable target for conservation activities.

Rank Qualifiers

Rank	Definition
?	Inexact Numeric Rank—Denotes inexact numeric rank (e.g., G2?)
Q	Questionable taxonomy—Taxonomic distinctiveness of this entity at the current level is questionable; resolution of this uncertainty may result in change from a species to a subspecies or hybrid, or the inclusion of this taxon in another taxon, with the resulting taxon having a lower-priority conservation priority.
C	Captive or Cultivated Only—At present extant only in captivity or cultivation, or as a reintroduced population not yet established.

### Intraspecific Taxon Conservation Status Ranks

Intraspecific taxa refer to subspecies, varieties and other designations below the level of the species. Intraspecific taxon status ranks (T-ranks) apply to plants and animal species only; these T-ranks do not apply to ecological communities.

Rank	Definition
T#	Intraspecific Taxon (trinomial)—The status of intraspecific taxa (subspecies or varieties) are indicated by a "T-rank" following the species' global rank. Rules for assigning T-ranks follow the same principles outlined above for global conservation status ranks. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T-rank cannot imply the subspecies or variety is more abundant than the species as a whole—for example, a G1T2 cannot occur. A vertebrate animal population, such as those listed as distinct population segments under the U.S. Endangered Species Act, may be considered an intraspecific taxon and assigned a T-rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

- Federal List:** Legal status under the federal Endangered Species Act of 1973.  
LE: endangered. A species "in danger of extinction throughout all or a significant portion of its range."  
LT: threatened. A species "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."
- RSGCN:** Species on the regional list of Species of Greatest Conservation Need (Terwilliger Consulting, Inc., and the Northeast Fish and Wildlife Diversity Technical Committee, 2013).
- NEPCoP:** Status in the 2013 New England *Flora Conservanda* (Brumback and Gerke 2013). The numbers refer to the divisions designated in the *Flora Conservanda*.

  - Division 1: Globally rare taxa occurring in New England.
  - Division 2: Regionally rare taxa. Generally, these taxa have 20 or fewer current occurrences in the region. Some Division 2 taxa may have more than 20 occurrences, but they are included because they are "vulnerable to extirpation due to other important factors (population size and trends, area of occupancy, overall viability, geographic distribution, habitat rarity and integrity, and/or degree of protection)." Taxa in this last category are labeled 2(a).
  - Division 3: Locally rare taxa. "These taxa may be declining in a significant part of their range in New England, or may have one or more occurrences of biological, ecological, or possible genetic significance. Division 3(a) are those taxa that have documented decline in a substantial portion of their range in New England, e.g. southern New England.... Division 3(b) taxa are those that, based on their biology and geography within New England, have populations that are disjunct to such a degree that genetic isolation is suspected....For Division 3(b), only selected occurrences in a particular state are of conservation concern for the purposes of the *Flora Conservanda* list, not all occurrences of the taxon throughout New England." Only when a 3(a) or 3(b) status applies to Massachusetts is it listed in this column.
  - Division 4: Historical taxa. Not observed in New England in the past 20 to 25 years.
  - Division Indeterminate (IND): Indeterminate taxa. These taxa are under review; their regional status is not yet determined.
- MESA:** Legal status under the Massachusetts Endangered Species Act (MGL c. 131A).  
E: Endangered  
T: Threatened  
SC: Special Concern

- **State Rank:** These are the conservation status ranks as defined by NatureServe (NatureServe, 2014). Ranks considered rare (S1 through S3S4) are in bold in the table above.

Subnational (S) Conservation Status Ranks

Status	Definition
SX	Presumed Extirpated—Species or community is believed to be extirpated from the state/province. Not located despite intensive searches of historical sites and other appropriate habitat, and virtually no likelihood that it will be rediscovered.
SH	Possibly Extirpated (Historical)—Species or community occurred historically in the state/province, and there is some possibility that it may be rediscovered. Its presence may not have been verified in the past 20-40 years. A species or community could become SH without such a 20-40 year delay if the only known occurrences in a state/province were destroyed or if it had been extensively and unsuccessfully looked for. The SH rank is reserved for species or communities for which some effort has been made to relocate occurrences, rather than simply using this status for all elements not known from verified extant occurrences.
S1	Critically Imperiled—Critically imperiled in the state/province because of extreme rarity (often 5 or fewer occurrences) or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the state/province.
S2	Imperiled—Imperiled in the state/province because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the state/province.
S3	Vulnerable—Vulnerable in the state/province due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation.
S4	Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S5	Secure—Common, widespread, and abundant in the state/province.
SNR	Unranked—State/province conservation status not yet assessed.
SU	Unrankable—Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
SNA	Not Applicable —A conservation status rank is not applicable because the species is not a suitable target for conservation activities.
S#S#	Range Rank —A numeric range rank (e.g., S2S3) is used to indicate any range of uncertainty

- **Other Concerns/Comments:**
  - The RSGCN ranks – low, moderate, high, very high – for regional responsibility and regional concern are derived from Terwilliger Consulting and Northeast Fish and Wildlife Diversity Technical Committee, 2013. These ranks are only available for vertebrates, freshwater mussels, tiger beetles, and federally listed invertebrates.
  - Birds: These notes refer to selected information from the Massachusetts Breeding Bird Atlas, the Breeding Bird Surveys, and various bird conservation plans, where the information influenced the decision to list a species as a SGCN.
  - Synonyms: Recently or commonly used scientific name synonyms are listed here. If the SGCN is listed under MESA, the names used on the MESA list are given precedence.
  - Other notes are given if relevant to selection as a SGCN.

## C: Changes in SGCN since 2005 SWAP

Table 3-2, below, summarizes the changes in Massachusetts SGCN since the 2005 SWAP.

**Table 3-2: Summary of Changes to SGCN List.**

	2005 Swap	2015 Update	Added since 2005	Deleted since 2005
<b>Total number of species</b>	262	570	339	31
<b>Fishes</b>	28	29	1	--
<b>Amphibians</b>	7	5	--	2
<b>Reptiles</b>	19	20	1	--
<b>Birds</b>	63	95	36	4
<b>Mammals</b>	20	23	5	2
<b>Invertebrates</b>	125	115	13	23
<b>Plants</b>	--	283	283	--

Rationale for additions:

- Fishes:
  - Spotfin Killifish: High regional responsibility and very high regional concern (Terwilliger Consulting and Northeast Fish and Wildlife Diversity Technical Committee, 2013).
- Reptiles:
  - Smooth Greensnake: Considered to be of high regional concern.
- Birds:
  - Northern Goshawk: Very high ranking for regional concern. The Massachusetts Breeding Bird Atlas calls it local and likely declining.
  - Blue-winged Teal: The Massachusetts Breeding Bird Atlas calls it very local and strongly declining.
  - Great Egret: This species has been increasing in numbers in recent years, but there are still very few breeding colonies in Massachusetts.
  - Purple Sandpiper: Very high ranking for regional concern.
  - Semi-palmated Sandpiper: High ranking for regional concern.
  - Cory's Shearwater: Part of global pattern of declines in colonial-nesting seabirds.
  - Chimney Swift: High ranking for regional concern. According to the Massachusetts Breeding Bird Atlas, it is very widespread and stable, but the Breeding Bird Survey data show it to be decreasing, both regionally and in Massachusetts.
- Common Nighthawk: Very high ranking for regional concern. The Massachusetts Breeding Bird Atlas calls it very local and strongly declining.
- Marsh Wren: Because of its limited breeding habitat, this species is considered to be local and vulnerable.
- Black-billed Cuckoo: Very high ranking for regional concern. The Massachusetts Breeding Bird Atlas calls it somewhat local and likely declining.
- Olive-sided Flycatcher: Very high ranking for regional concern. The Massachusetts Breeding Bird Atlas calls it very local and strongly declining.
- Bobolink: Very high ranking for regional concern. The Massachusetts Breeding Bird Atlas calls it fairly widespread and likely increasing, but the Breeding Bird Survey data show it to be declining regionally. There is concern that it is showing up at many sites because breeding birds are being pushed out of suitable habitat by early mowing practices.
- Horned Lark: High regional concern. The Massachusetts Breeding Bird Atlas calls it local and strongly declining.
- Rusty Blackbird: This is a Partners in Flight (PIF) Watch List Species and of very high regional concern.
- Atlantic Puffin: Part of global pattern of declines in colonial-nesting seabirds.

- Wilson's Snipe: High regional concern. It is deemed local and likely increasing by the Massachusetts Breeding Bird Atlas; it has also been shown to be increasing on Massachusetts Breeding Bird Survey routes. However, its breeding habitat is still very limited.
- Red-throated Loon: Red-throated Loons, which winter off the Massachusetts coast, are of highest priority in the Waterbird Plan.
- Purple Finch: The Massachusetts Breeding Bird Atlas data show this species to be absent from 227 blocks it bred in 25 years ago; the Atlas calls its current status fairly widespread and strongly declining.
- Herring Gull: There are only a few breeding colonies of this species in Massachusetts.
- Great Black-backed Gull: There are only a few breeding colonies of this species in Massachusetts.
- Black-and-white Warbler: The Massachusetts Breeding Bird Atlas calls this species very widespread and likely declining.
- Northern Gannet: May be part of global pattern of declines in colonial-nesting seabirds.
- Nashville Warbler: The Massachusetts Breeding Bird Atlas calls it local and strongly declining.
- Cliff Swallow: The Massachusetts Breeding Bird Atlas calls this species local and strongly declining.
- Double-crested Cormorant: There are only a few breeding colonies of this species in Massachusetts.
- Red Phalarope: Part of global pattern of declines in Arctic-nesting shorebirds.
- Red-necked Phalarope: Part of global pattern of declines in Arctic-nesting shorebirds.
- Scarlet Tanager: High regional responsibility and high regional concern.
- Glossy Ibis: Highest priority in the Waterbird Plan.
- Purple Martin: The Massachusetts Breeding Bird Atlas calls this species very local and strongly declining.
- Sooty Shearwater: Ranked Near Threatened on the IUCN Red List. Part of global pattern of declines in colonial-nesting seabirds.
- Manx Shearwater: Part of global pattern of declines in colonial-nesting seabirds.
- Bank Swallow: High regional concern. The Massachusetts Breeding Bird Atlas calls it somewhat local and strongly declining.
- Cerulean Warbler: This is a Partners in Flight Watch List species and of very high regional concern.
- Chestnut-sided Warbler: The Massachusetts Breeding Bird Atlas calls this species widespread and likely declining.
- Willet: Very high regional concern. Although the Massachusetts Breeding Bird Atlas showed it to be strongly increasing, it is restricted to a habitat, salt marsh, under threat from sea level rise.
- Mammals:
  - Little Brown Myotis, Northern Long-eared Bat, Tricolored Bat: All three of these species were virtually extirpated from Massachusetts by white-nose syndrome. All three were recently added to the MESA list, at the Endangered level, as a result.
  - Big Brown Bat: Because Big Brown Bats often hibernate in hibernacula that are not likely to be affected by white-nose syndrome, they are likely not to be as heavily impacted as the three bats above. However, the extent of impact is as yet unknown and it seems prudent to add them to the SWAP list at this point.
  - Northern Flying Squirrel: The current distribution of this species in Massachusetts is not well understood; there have been few recent records. Given its apparent preferences for northern forests, which are likely to be affected by climate change at the southern edge of their range in the state, it seems likely this species' distribution will be affected as well.
- Invertebrates:
  - Alewife Floater: The glochidial hosts for this mussel are river herring, which are experiencing significant declines in recent years. Alewife Floater distribution in Massachusetts seems to be tied to good connectivity; several hundred years of dam construction in the state has destroyed many formerly intact herring runs.
  - Eastern Lampmussel: Surveys for mussels over the past fifteen years have documented fewer sites for this species than some of the other mussels on the MESA list. Further, it is often locally abundant in habitats supporting

MESA-listed mussels and may represent an important indicator of habitat change.

- Eastern Pearlshell: This mussel has been designated of high concern regionally. Its habitat is coldwater rivers and streams, which are threatened by warming caused by development and, probably, by climate change. Its life history characteristics – it is very long-lived, up to a century – leave it vulnerable to rapid environmental changes.
- Sandplain Heterocampa: This was rediscovered in Massachusetts in 2004 and is of conservation concern throughout its small and fragmented global range. It was added to the MESA list in 2011.
- Walsh’s Anthophora: This bee is very uncommon in Massachusetts.
- Macropis Cuckoo Bee: This parasitic bee is extremely rare globally.
- Oil-collecting Bees (three *Macropis* species): These bees are specialists on *Lysimachia* (yellow loosestrifes) and are very uncommon in Massachusetts.
- Bumble Bees (four *Bombus* species): These four bees, formerly common and widespread in Massachusetts, have apparently suffered severe declines in the past decade.
- Plants:
  - All 283 plants in the 2015 SWAP were added since the 2005 SWAP. Most of these plants are on the MESA list; others are known to be very rare or experiencing strong declines across the state in recent decades.

#### Rationale for deletions:

- Amphibians:
  - Four-toed Salamander: Increased and more effective survey efforts over the past decade have led to the documentation of many new populations of this species, with a total of at least 240 populations across most of the state. As a result, Massachusetts has delisted this species from protection under MESA and it no longer needs listing as a SGCN.
  - Spring Salamander: This species’ range in Massachusetts is largely in the hilly western part of the state, where development pressure is low and significant acreage is conserved as protected open space. Fifty-four occurrences have been documented, with the likelihood of

many more. Therefore, it was removed from the MESA and SWAP lists.

- Birds:
  - Sharp-shinned Hawk: Historical threats to this species have now diminished substantially and current trends in forest succession favor it as well. The Massachusetts Breeding Bird Atlas found it nesting in 123 more blocks than 25 years ago. Therefore, it has been removed from both the MESA and the SWAP lists.
  - Green Heron: This species is widespread across Massachusetts and likely increasing, according to the Massachusetts Breeding Bird Atlas data.
  - Henslow’s Sparrow: Reconsideration of the historical and current data on occurrences of this species in Massachusetts has led to the conclusion that it has never been a regular (non-vagrant, non-transient) component of the state’s avifauna. Therefore, Massachusetts is proposing to delist this species under MESA and it no longer needs to be listed as a SGCN.
  - Willow Flycatcher: Breeding Bird Surveys and the update of the Massachusetts Breeding Bird Atlas have shown this species to be increasing significantly across the state in the past decade or so. Therefore, it no longer needs listing as a SGCN.
- Mammals:
  - Beach Vole: This has been removed from the SGCN list because of the unresolved taxonomic issues.
  - Harbor Porpoise: This species has recovered its numbers substantially on the Massachusetts coast over the past 15 years and no longer needs listing as a SGCN.
- Invertebrates:
  - Mount Everett Pond Sponge: Although this species is given a G-rank of G3 by NatureServe, little is known about it in Massachusetts and it is certainly undersurveyed in the state. Without more information on its status in Massachusetts, it seems prudent to drop it from the SWAP list in order to focus conservation actions on better-known species.
  - Stoneflies: These species were removed because there are insufficient data to determine their status in Massachusetts.
  - Walker’s Limpet: Recent molecular data indicate this species is conspecific with the more common Fragile Ancyliid (*Ferrissia*

- fragilis*). Therefore, it was removed from the MESA and SWAP lists.
- Olive Vertigo: Surveys in the past decade have revealed there to be at least 24 occurrences of this species in Massachusetts, with many more likely. The species appears to be widespread across the state and to have broader habitat tolerance than previously thought. Therefore, it was removed from the MESA and SWAP lists.
  - Vernal Physa: Although this species is given a G-rank of G3 by NatureServe, little is known about it in Massachusetts and it is certainly undersurveyed in the state. Without more information on its status in Massachusetts, it seems prudent to drop it from the SWAP list in order to focus conservation actions on better-known species. Also, its habitat (vernal pools) is targeted by several other SWAP species.
  - Feminine Clam Shrimp: It is unclear whether this species is native to Massachusetts and, for that matter, exactly what its distribution in Massachusetts is, because it is very undersurveyed. Therefore, it has been dropped from the SWAP list for lack of sufficient information.
  - Zebra Clubtail: Increased and more effective survey efforts over the past decade have led to the documentation of many new populations of this species. As a result, Massachusetts has delisted this species from protection under MESA and it no longer needs listing as a SGCN.
  - Arrow Clubtail: Increased and more effective survey efforts over the past decade have led to the documentation of many new populations of this species. As a result, Massachusetts has delisted this species from protection under MESA and it no longer needs listing as a SGCN.
  - New England Bluet: Increased and more effective survey efforts over the past decade have led to the documentation of many new populations of this species, with a total of at least 80 populations across most of the state. As a result, Massachusetts has delisted this species from protection under MESA and it no longer needs listing as a SGCN.
  - Little Bluet: NatureServe has changed the global rank of this species from G3G4 to G4. Coupled with its relatively secure status in Massachusetts (S3), it has been dropped from the SWAP list. Also, its known locations in Massachusetts are also the sites for several other *Enallagma* which remain on the SWAP list.
  - Sylvan Hygrotus Diving Beetle: At the time of the 2005 SWAP, the G-rank for this species was GH. Currently, the G-rank is GU. Because the status of this species is unknown and because so little is known about diving beetles in general in Massachusetts, it is not appropriate to designate this as a SGCN at this time.
  - Spiny Oakworm: Recent field work indicates that this species is abundant and secure on Nantucket, Martha's Vineyard, the Massachusetts Military Reservation at the base of Cape Cod, and in the Plymouth County pitch pine/scrub oak barrens. In addition, on the vineyard, it has broad habitat and host preferences. Therefore, it was removed from the MESA and SWAP lists.
  - Coastal Plain Apamea Moth: This species has not been documented in Massachusetts in over 32 years, despite extensive, targeted searches at the historical site and in other appropriate habitat. Therefore, it was removed from the MESA and SWAP lists.
  - Straight Lined Mallow Moth: The host plants for the larvae of this moth have recently been determined to be hazelnuts, which are widespread and abundant species in many habitats across the state. No negative trends in population size, number of populations, amount of habitat, or state distribution have been documented. No threats have been documented to the persistence of this species in the state. Therefore, it was removed from the MESA and SWAP lists.
  - Three-lined Angle Moth: This species is apparently extirpated from Massachusetts; there have been no records in over 30 years. The site of the single previous occurrence has been surveyed multiple times. Therefore, it was removed from the MESA and SWAP lists.
  - Oak Hairstreak: From the late 1990s to date, this species has expanded its range across the state, and is now only absent from Nantucket. It is not restricted to undisturbed natural habitats; adults nectar in old fields and vacant lots, powerline or pipeline cuts, abandoned gravel pits and landfills, plant nurseries, and

suburban yards. Therefore, it was removed from the MESA and SWAP lists.

- A Noctuid Moth (*Hadena ectypa*): This species has expanded its range into southwestern New England (western Connecticut and western Massachusetts) by adapting to use a nonnative, weedy larval host plant, *Silene vulgaris* (Nelson 2012). It is likely that it uses this new host plant elsewhere, or will in the future, further expanding its geographic range and making its global status more secure.
- Two-striped Cord Grass Moth: This species is undersurveyed, and a G-rank of G4 is probably more accurate than its current NatureServe G-rank of G3G4. This is based on a slow but steady accumulation of incidental records in Massachusetts when sampling in or near appropriate habitat (freshwater marshes). Targeted sampling would almost certainly prove that it is undersurveyed.
- West Virginia White: A rank of G3G4 is probably more appropriate than its current NatureServe G-rank of G3?. Despite its apparent rarity and demonstrated threats across its range, this species has a several strongholds where it is currently ranked S3S4, including Massachusetts, Vermont, North Carolina, and Tennessee. Targeted survey effort would likely demonstrate S4 status in one or more of these states, and therefore G4 status as well.
- Plain Schizura: This species is undersurveyed, and a G rank of G4 is probably more accurate. This is based on a slow but steady accumulation of incidental records in Massachusetts when sampling in or near appropriate habitat, which is various dry-soil habitats (sandplains or rocky summits and ridges). Targeted sampling would almost certainly prove that it is undersurveyed.
- Northeastern Pine Zale: This is another species that was undersurveyed, but records accumulated and its status was changed from G3G4 to G4. In Massachusetts, it occurs throughout the southeastern part of the state (Plymouth, Barnstable, Dukes, and Nantucket counties), as well as in Essex County.

## D: Comparison to Regional Lists

### **Animals**

The regional list of Species of Greatest Conservation Need (Terwilliger Consulting and Northeast Fish and Wildlife Diversity Technical Committee, 2013) covers vertebrates, freshwater mussels, tiger beetles, and federally listed invertebrates from other taxonomic groups. Each of the species on this list (abbreviated RSGCN) has been assigned a very high/high/low rank for regional responsibility and regional concern. There are 366 species or subspecies on the regional list with high to very high rankings for both regional responsibility and regional concern.

The Massachusetts list of SGCN includes 143 of the 366 taxa of regional SGCN (note that the Massachusetts list counts Blue-spotted and Jefferson Salamanders as two species, but the regional list counts them as one taxon).

Of the 366 taxa on the regional list of highest priority SGCN, 200 do not occur regularly in Massachusetts as migrating, breeding, or over-wintering species, and therefore were not included on the Massachusetts list of SGCN.

Twenty-four other highest priority regional animal SGCN, however, do occur regularly (or breed in very small numbers) in Massachusetts, but were not included on the Massachusetts SGCN list. The reasons for these exclusions are given below:

- Fishes
  - Mummichog: considered S5, secure, in Massachusetts.
  - Redbreast Sunfish: considered S4, apparently secure, in Massachusetts.
- Amphibians
  - Northern Dusky Salamander: considered S4S5, apparently secure to secure, in Massachusetts.
  - Northern Two-lined Salamander: considered S5, secure, in Massachusetts.
  - Spring Salamander: This species' range in Massachusetts is largely in the hilly western part of the state, where development pressure is low and significant acreage is conserved as protected open space. Fifty-four occurrences have been documented, with the likelihood of many more. Therefore, it was removed from the MESA and SWAP lists.
- Fowler's Toad: considered S4, apparently secure, in Massachusetts.
- Birds
  - Cattle Egret: Only one nesting colony was found during the recent Massachusetts Breeding Bird Atlas. Thus, while this species teeters on the edge of being a regular breeding species in the state, on balance it is not.
  - Little Blue Heron: This species appears to be at the very northern edge of its breeding range in Massachusetts. Thus, on balance, it is not a regular breeder in the state.
  - Red-shouldered Hawk: widespread and reasonably common as a breeding species; considered S4, apparently secure, in Massachusetts.
  - Veery: considered S5, secure, in Massachusetts; described as very widespread and likely increasing in the Massachusetts Breeding Bird Atlas results.
  - Brown Creeper: described as widespread and likely increasing in the Massachusetts Breeding Bird Atlas results; considered S5, secure, in Massachusetts.
  - Willow Flycatcher: considered S4, apparently secure, in Massachusetts. Described in the Massachusetts Breeding Bird Atlas results as fairly widespread and strongly increasing.
  - Acadian Flycatcher: described in the Massachusetts Breeding Bird Atlas results as local and strongly increasing. However, note that it is ranked S2 in Massachusetts.
  - Yellow-breasted Chat: This species appears to be at the very northern edge of its breeding range in Massachusetts. Thus, on balance, it is not a regular breeder in the state.
  - Marbled Godwit: This is a very rare but regular migrant through the state and therefore not a regular component of the Massachusetts avifauna.
  - Clapper Rail: This is a rare, but possibly regular, breeding species in Massachusetts. Ranked S2 both as a breeding species and as a migrant.
  - Black-throated Blue Warbler: described as fairly widespread and likely increasing in the results of the Massachusetts Breeding Bird Atlas.

- Blackburnian Warbler: a widespread and fairly common breeding species in the western half of Massachusetts, although quite sporadic in the eastern half.
- Black-throated Green Warbler: described as widespread and likely increasing in the results of the Massachusetts Breeding Bird Atlas.
- Mammals
  - Star-nosed Mole: considered S5, secure, in Massachusetts.
  - Woodland Jumping Mouse: considered S5, secure, in Massachusetts.
  - Hairy-tailed Mole: considered S5, secure, in Massachusetts.
  - Beach Vole: As noted above, this has been removed from the SGCN list because of the unresolved taxonomic issues.
  - Harbor Porpoise: As noted above, this species has recovered its numbers substantially on the Massachusetts coast over the past 15 years and no longer needs listing as a SGCN.

### Plants

The regional list of plants in need of conservation, *Flora Conservanda* (Brumback and Gerke 2013), covers higher vascular plant taxa in the six New England states. Each species on this list has been assigned to a division within the list, depending on its global, regional, or local rarity and other factors. There are 590 taxa on the 2013 *Flora Conservanda*.

The Massachusetts list of SGCN includes 150 taxa identified in the *Flora Conservanda* as Division 1 through Division 4, and ten additional taxa identified as IND (as yet indeterminate status), for a total of 160 plant species considered to be of regional concern.

Of the 590 taxa in the *Flora Conservanda*, 350 do not occur in Massachusetts, are Historic in the state, or are not native to the state, and therefore were not included on the Massachusetts list of SGCN (with the exception of Seabeach Amaranth, which is being reintroduced to the state).

Seventy-one other regional plant species of conservation concern do occur in Massachusetts, but were not included on the Massachusetts SGCN list. These taxa are listed below. If the state rank (S-rank) of a taxon is S4 or S5 in Massachusetts, the taxon is secure enough that its inclusion as a SGCN is not warranted. If the S-rank has not been determined or is S1 through S3, the taxon is usually on the Massachusetts Natural

Heritage & Endangered Species Program Plant Watch List, but insufficient information is available to determine whether the taxon deserves inclusion as a SGCN. (This Watch List has no regulatory status; it is simply a list of the plants NHESP botanists think may be of concern in the state, as a way to organize tracking of the taxa.) Note that this means there may very well be additional plant taxa that could be on the Massachusetts SGCN list if sufficient field or herbarium work were undertaken. The notes on county distribution below come from Cullina et al. 2011.

- *Amelanchier nantucketensis*: considered S3S4, between vulnerable and apparently secure, in Massachusetts; on the state plant Watch List.
- *Artemisia campestris* ssp. *caudata*: considered S4, apparently secure, in Massachusetts.
- *Athyrium asplenioides*: considered S2? in Massachusetts; on the state plant Watch List.
- *Bartonia paniculata*: considered S4, apparently secure, in Massachusetts.
- *Betula nigra*: considered S3 in Massachusetts; on the state plant Watch List.
- *Bolboschoenus novae-angliae*: considered S2? in Massachusetts; on the state plant Watch List.
- *Botrychium oneidense*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Calamagrostis canadensis* var. *macouniana*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Cardamine concatenata*: considered S4, apparently secure, in Massachusetts.
- *Cardamine maxima*: considered S2? in Massachusetts; on the state plant Watch List.
- *Carex bicknellii*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Carex debilis*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Carex eburnea*: considered S3, vulnerable, in Massachusetts; known only from Berkshire County.
- *Carex emoryi*: considered S1 in Massachusetts; on the state plant Watch List.
- *Carex molesta*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Carex muehlenbergii* var. *enervis*: considered S4, apparently secure, in Massachusetts.
- *Carex sparganioides*: considered S3S4, somewhere between vulnerable and apparently secure, in Massachusetts.

- *Ceanothus herbaceus*: the S-rank of this species is variously given as S4, SNR, and SE; nonetheless, it appears to be secure in the state.
- *Cirsium horridulum* var. *horridulum*: considered S2S3 in Massachusetts; on the state plant Watch List.
- *Crataegus schizophylla*: considered S1 in Massachusetts; on the state plant Watch List.
- *Crataegus succulenta*: the status of this taxon in Massachusetts is undetermined; known from two counties.
- *Cuscuta coryli*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Cuscuta gronovii*: the status of this taxon in Massachusetts is undetermined; it is documented from all counties.
- *Cuscuta polygonorum*: considered S1? in Massachusetts; on the state plant Watch List.
- *Cyperus retrosus*: considered S1? in Massachusetts; on the state plant Watch List.
- *Dicentra canadensis*: considered S4, apparently secure, in Massachusetts.
- *Dichanthelium acuminatum* ssp. *acuminatum*: considered S1? in Massachusetts; on the state plant Watch List.
- *Elymus macgregorii*: considered S2? in Massachusetts; on the state plant Watch List.
- *Elymus villosus* var. *arkansanus*: the status of this taxon in Massachusetts is undetermined.
- *Eleocharis rostellata*: considered S2? in Massachusetts; on the state plant Watch List.
- *Eleocharis tuberculosa*: considered S4, apparently secure, in Massachusetts.
- *Euphorbia nutans*: considered S4, apparently secure, in Massachusetts.
- *Fuirena pumila*: considered S3, vulnerable, in Massachusetts; on the state plant Watch List.
- *Heteranthera dubia*: considered S2S3 in Massachusetts; on the state plant Watch List.
- *Hudsonia tomentosa*: considered S4, apparently secure, in Massachusetts.
- *Hypopitys lanuginosa*: the status of this taxon in Massachusetts is undetermined; only known from Barnstable County.
- *Ilex glabra*: considered S4, apparently secure, in Massachusetts.
- *Juncus biflorus*: considered S1? in Massachusetts; on the state plant Watch List.
- *Juncus torreyi*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Lactuca hirsuta*: considered S2S3 in Massachusetts; on the state plant Watch List.
- *Lechea minor*: considered S2S3 in Massachusetts; on the state plant Watch List.
- *Lonicera sempervirens* var. *sempervirens*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List. As this species is commonly offered in the nursery trade, it is difficult to determine whether an occurrence is native or exotic.
- *Lythrum alatum* ssp. *alatum*: considered S1? in Massachusetts; on the state plant Watch List.
- *Muhlenbergia sobolifera*: considered S4, apparently secure, in Massachusetts.
- *Oenothera fruticosa* ssp. *fruticosa*: the status of this taxon in Massachusetts is undetermined; it is not clear if there are any native occurrences.
- *Paronychia canadensis*: considered S4, apparently secure, in Massachusetts.
- *Paronychia fastigiata* var. *fastigiata*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Paspalum setaceum* var. *psammophilum*: considered S2S3 in Massachusetts; on the state plant Watch List.
- *Phragmites americanus*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Pilea fontana*: considered S3S4, between vulnerable and apparently secure, in Massachusetts.
- *Pityopsis falcata*: considered S4, apparently secure, in Massachusetts.
- *Podophyllum peltatum*: the status of this taxon in Massachusetts is undetermined; it is unclear whether there are any native stands of it in the state.
- *Polygonum erectum*: considered S3S4, between vulnerable and apparently secure, in Massachusetts.
- *Ranunculus hispidus*: the status of this taxon in Massachusetts is undetermined; it is known from four counties.
- *Rhododendron viscosum*: considered S5, secure, in Massachusetts.
- *Ribes rotundifolium*: considered S1? in Massachusetts; on the state plant Watch List.
- *Rorippa aquatica*: the status of this taxon in Massachusetts is undetermined; it is only known from Berkshire County.

- *Rubus cuneifolius*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Sagina decumbens* ssp. *decumbens*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Salix candida*: considered S3 in Massachusetts; on the state plant Watch List.
- *Scirpus georgiana*: considered S4?, apparently secure?, in Massachusetts.
- *Scutellaria parvula* var. *missouriensis*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Sorghastrum nutans*: considered S4S5, apparently secure to secure, in Massachusetts.
- *Sparganium androcladum*: considered S3? in Massachusetts; on the state plant Watch List.
- *Stachys hispida*: considered S4, apparently secure, in Massachusetts.
- *Stachys hyssopifolia*: considered S3S4, between vulnerable and apparently secure, in Massachusetts; on the state plant Watch List.
- *Triglochin maritima*: considered S4, apparently secure, in Massachusetts.
- *Triosteum aurantiacum* var. *aurantiacum*: considered S4, apparently secure, in Massachusetts.
- *Viola subsinuata*: considered S1S2 in Massachusetts; on the state plant Watch List.
- *Wolffiella gladiata*: the status of this taxon in Massachusetts is undetermined; on the state plant Watch List.
- *Xyris smalliana*: considered S3? in Massachusetts; on the state plant Watch List.